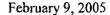
APPENDIX B-1: RESULTS OF SOIL VAPOR ANALYSES





Mr. David Conner Battelle 3990 Old Town Ave. Suite B104 San Diego, CA 92110

SUBJECT: DATA REPORT – JET PROPULSION LAB – 4800 OAK GROVE DRIVE – PASADENA, CA - GEOFON PROJECT #4-12812 JPL

H&P Mobile Geochemistry Project # GF020305-L6

Mr. Brehmer:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (CERT #2579).

Project Summary

Soil vapor from 12 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8260B
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

H&P Mobile Geochemistry appreciates the opportunity to provide analytical services to Geofon on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely,

Pehecle of Johnson for Ms. Tamara Davis

Lab Director

GEOFON PROJECT #04-12812-JPL JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #GF020305-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT BLANK	SVW39- VPI-001	SVW37- VPJ-002	SVW2- VPA-003	SVW4- VPB-004	SVW17- VPB-005	SVW10- VPB-006	SVW33- VPD-007	SVW33- VPE-008	SVW33- VPF-009	SVW33-VPF- 010 Dup	SVW32- VPH-011	SVW36- VPB-012	SVW36- VPC-013	SVW36-VPC- 014 Dup
DATE	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05
ANALYSIS TIME	6:55	7:26	7:50	8:13	8:36	8:59	9:22	9:44	10:07	10:30	10:53	11:56	12:20	12:43	13:05
SAMPLING DEPTH (feet)	6.55	130	185	10	20	24	35	9.44 85	10.07	120	120	155	35	12:43 55	55
• •		580	800	100	140			400	480						
VOLUME WITHDRAWN (cc)						156	200	=		540	600	680	200	280	340
VOLUME INJECTED DILUTION FACTOR	20 0,05	20 0.05	20 0.05	20 0.05	20 0.05	20 0.05	20 0.05	20 0.05	20 0.05	20 0,05	20 0.05	20 0.05	20 0.05	20	20 0.05
DIEG HON FACTOR	0.03	0.05	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	2.2	2.4	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	กป	nd	nd	nd	nđ	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
1,2-DICHLORO ETHANE	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.2	1.3	nd	nđ	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	19	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	3.2	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	ηd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd
SURROGATES (75-125% RECOVERY)															
DIBROMODIFLUOROMETHANE	90%	93%	89%	91%	91%	94%	92%	94%	94%	94%	95%	90%	93%	92%	91%
1,2-DICHLOROETHANE-d4	89%	92%	89%	94%	89%	93%	93%	98%	91%	93%	96%	88%	95%	95%	94%
4 BROMOFLUORO BENZENE	90%	90%	90%	87%	90%	90%	89%	92%	89%	88%	89%	92%	89%	88%	94%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE





Mr. David Conner Battelle 3990 Old Town Ave. Suite B104 San Diego, CA 92110

SUBJECT: DATA REPORT – JET PROPULSION LAB – 4800 OAK GROVE DRIVE – PASADENA, CA - GEOFON PROJECT #4-73803 JPL

H&P Mobile Geochemistry Project # GF041905-L6

Mr. Conner:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (CERT #2579).

Project Summary

Soil vapor from 52 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8260B
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

H&P Mobile Geochemistry appreciates the opportunity to provide analytical services to Battelle on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely,

Ms. Tamara Davis

Lab Director

GEOFON PROJECT #4-73803-JPL-Pasadena JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA

H&P Project #GF041905-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT BLANK	SVW9- VPA-001	SVW9- VPB-002	SVW9- VPC-003	SVW9- VPD-004	SVW9- VPE-005	SVW10- VPB-006	SVW17- VPB-007	SVW26- VPF-008	SVW26- VPG-009	SVW26-VPG- 010 Dup	SVW26- VPH-011	SVW2- VPA-012	SVW4- VPB-013
DATE	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05	04/19/05
ANALYSIS TIME	7:09	7:56	8:19	8:41	9:25	9:47	10:08	10:32	10:54	11:15	11:36	12:41	13:03	13:27
SAMPLING DEPTH (feet)		20	35	50	70	87	35	24	115	140	140	160	10	20
VOLUME WITHDRAWN (cc)		140	200	260	340	408	200	156	520	620	680	700	100	140
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nđ						
CHLOROETHANE	nd	nd	nd	กป	nd	nd	nd	nď						
CHLOROFORM	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nď
1.1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nđ	nď	nd	nď
1.2-DICHLORO ETHANE	nd	nd	nd	nd	nđ	nď	nd	nd	nd	nd	nđ	nď	nd	กต์
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nď	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nď	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nđ	nd	nd	กส	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	πd	nd	nđ	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nđ	nd	nd	nd	nď	nđ	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nđ	nd	nd	nd	nd	nd	nd						
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nď	nd	nd	nd	nd						
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	กต่	18
VINYL CHLORIDE	nd	nd	nd	nd	nđ	nd	лđ	nd	nd	πd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nđ	nđ	nd	nd	nd	nd	nd	กd	nd	nd	nđ	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nđ	nd	nd	nd	пd	nd	пd	nd	nd	nd	nď	πd	nď
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nď	nd	nd	nd	nd	nd	nd						
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nđ	nd						
ETHYLBENZENE	nđ	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nđ	nd	nd	nd	9.1	nd	nd	nď	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nđ	nđ	nd	nd	nd	nđ	nd	nđ
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd						
SURROGATES (75-125% RECOVERY)														
DIBROMODIFLUOROMETHANE	93%	91%	91%	93%	92%	94%	95%	95%	94%	92%	93%	93%	91%	93%
1,2-DICHLOROETHANE-d4	93% 97%	89% 97%	89% 95%	91% 93%	92% 94%	96% 93%	97% 92%	95% 94%	92% 95%	95% 96%	95% 94%	92% 93%	95% 93%	93% 93%
4 BROMOFLUORO BENZENE						3070	3270	3470	5070	30 /6	3470	3076	30 /n	5376

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

GEOFON PROJECT #4-73803-JPL-Pasadena JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA

H&P Project #GF041905-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT BLANK	\$VW27- VPA-014	SVW27- VPB-015	SVW27- VPC-016	SVW27- VPD-017	SVW27- VPE-018	SVW27- VPF-019	SVW27-VPF- 020 Dup	SVW27- VPG-021	SVW27- VPI-022	SVW27- VPJ-023	SVW32- VPA-024	SVW33- VPD-025	SVW33- VPE-026	SVW33- VPF-027
DATE	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05	04/20/05
ANALYSIS TIME	7:22	7:52	8:14	8:36	8:58	9:21	9:45	10:07	10:28	10:50	11:13	12:17	12:39	13:01	13:23
SAMPLING DEPTH (feet)	••	20	35	60	85	100	120	120	140	180	205	155	85	105	120
VOLUME WITHDRAWN (cc)		140	200	300	400	460	540	600	620	780	880	680	400	480	540
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď
CHLOROETHANE	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nď	nd	nď	nd
CHLOROFORM	nd	92	81	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	กต์	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	กต่	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	กฮ	nd	nd	nd	nd	กซ์	nd						
1,1,2,2-TETRACHLORO ETHANE	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nď	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nď	nđ	nd	nd	nd	กฮ	nd	nď	nd	nď	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nď	nď	nd	nd	nd
TRICHLORO ETHENE	nd	nd	กต์	nd	nd	nđ	nd	nd	nd	nď	nď	nđ	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nď	nd	nd	nd	nď	nď	nd	nđ	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nđ	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nđ	лđ	nd	nd	กต์	nd	nd	nđ	nd	กต์	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nđ	nd	nd	nd	nd	. nd	nd	nđ	กต์	nđ	nd	nd	nd
BENZENE	nd	กป	nď	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nđ	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nđ	nd	πđ	nd
ETHYLBENZENE	nď	nd	nd	nd	nd	nd	nd	nď	nd	nď	nđ	nđ	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nď	nđ	nd	nd	nd
m&p-XYLENES	กส	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	กฮ	nd	กฮ	nd
o-XYLENE	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nď	nď	nd	nd	nd	nd
SURROGATES (75-125% RECOVERY)															
DIBROMODIFLUOROMETHANE	91%	91%	93%	92%	93%	94%	94%	92%	93%	93%	93%	93%	95%	93%	94%
1,2-DICHLOROETHANE-d4	93%	89%	96%	93%	95%	96%	97%	97%	94%	95%	92%	98%	98%	99%	94%
4 BROMOFLUORO BENZENE	95%	95%	95%	91%	98%	97%	93%	94%	98%	95%	96%	100%	92%	97%	93%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

GEOFON PROJECT #4-73803-JPL-Pasadena JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA

H&P Project #GF041905-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT	SVW36-	SVW36-	SVW36-	SVW36-VPC-	SVW36-	SVW36-	SVW38-	SVW38-	SVW38-	SVW35-	SVW35-
	BLANK	VPA-028	VPB-029	VPC-030	031 Dup	VPD-032	VPE-033	VPD-034	VPF-035	VPJ-036	VPB-037	VPE-038
DATE	04/21/05	04/21/05	04/21/05	04/21/05	04/21/05	04/21/05	04/21/05	04/21/05	04/21/05	04/21/05	04/21/05	04/21/05
ANALYSIS TIME	7:52	8:14	8:41	9:03	9:25	9:48	10:09	10:31	10:52	11:13	11:35	12:43
SAMPLING DEPTH (feet)	•-	20	35	55	55	75	92	80	110	170	35	80
VOLUME WITHDRAWN (cc)		140	200	280	340	360	446	380	500	740	200	380
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nđ	nd	nď	nd	nd	nd	nd	nď
CHLOROETHANE	nd	nd	nd	nd	nđ	nđ	nď	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	กดี	nd	nd	nd	nd	nd	nđ	nd	nd	กฮ	nd	nđ
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	กฮ	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nđ
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd
DICHLOROMETHANE	nd	nd	пd	nd	nd	nd	nd	nd	nđ	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	лd	nd	nd	nd	nd	nd	nđ	nď	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nď	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	πd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	กd	пd	nd	nd	лd	nd	nd	nđ	nd	nd
1,1,2-TRICHLORO ETHANE	πd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	กต่	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nđ	nd						
VINYL CHLORIDE	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nđ	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nď	nd	nđ
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nđ	nď	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nď	nd						
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	กป	nd
CHLOROBENZENE	nd	лd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nđ	nđ	nd	nd	nd	nđ	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd
m&p-XYLENES	nd	πd	nd	nd	nđ	nd	nd	nd	nď	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	กต่	nd
SURROGATES (75-125% RECOVERY)												
DIBROMODIFLUOROMETHANE	95%	96%	95%	94%	96%	96%	94%	92%	93%	96%	95%	96%
1,2-DICHLOROETHANE-d4	97%	98%	99%	97%	103%	102%	101%	100%	98%	98%	101%	103%
4 BROMOFLUORO BENZENE	96%	95%	94%	94%	95%	96%	99%	93%	95%	94%	99%	97%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

GEOFON PROJECT #4-73803-JPL-Pasadena JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE PASADENA, CA

H&P Project #GF041905-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT BLANK	SVW39- VPA-039	SVW39- VPC-040	SVW39-VPC- 041 Dup	SVW39- VPE-042	SVW39- VPF-043	SVW39- VPG-044	SVW39- VPI-045	SVW37- VPB-046	SVW37- VPD-047	SVW37- VPE-048	SVW37- VPH-049	SVW37-VPH- 050 Dup	SVW37- VPI-051	SVW37-VPJ 052
DATE	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	04/22/05	
ANALYSIS TIME	6:27	6:54	7:17	7:38	8:01	8:23	8:45	9:08	9:29	9:51	10:14	11:19	11:40	12:03	12:25
SAMPLING DEPTH (feet)		20	50	50	85	100	110	130	40	80	100	155	155	170	185
VOLUME WITHDRAWN (cc)		140	260	320	400	460	500	580	240	480	460	680	740	740	800
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nđ	nd	nd	nd
CHLOROETHANE	nd	nd	nđ	nd	nd	กด์	กต้	nd	nd	nd	nd	nd	nď	nd	nd
CHLOROFORM	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd
1.1-DICHLORO ETHANE	nd	nd	nd	ьа	nd	nd	nď	nđ	nd	nd	nd	nd	nď	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ಗಡೆ	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nď	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	กฮ์	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nđ	nd	nd	nď								
TETRACHLORO ETHENE	nd	nđ	nd	nď	nd	nd	nd	nd	nd	กต์	nd	nd	nď	nd	nđ
1,1,1,2-TETRACHLORO ETHANE	nd	пđ	nd	กต์	nd	nd	nd	nd	nd	nď	nd	nd	nď	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	೧ ರ	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	กติ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ
1,1,2-TRICHLORO ETHANE	nd	nd	nd	· nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nđ	nd	nd	nd	nd	3.7	nd	nd	nd	nd	nd	กต์	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nď	nd	nď	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	១៤	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	3.3	nd	nd	nď						
BENZENE	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nď	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nđ	nd	nd	nđ	nd	nđ	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nđ	nd	nď	nd	nd	nđ							
m&p-XYLENES	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES (75-125% RECOVERY)															
DIBROMODIFLUOROMETHANE	96%	97%	96%	95%	97%	93%	97%	97%	99%	95%	97%	95%	99%	96%	99%
1,2-DICHLOROETHANE-d4	103% 95%	104% 95%	104% 95%	103% 99%	104% 99%	102% 95%	103% 98%	103% 96%	104% 93%	101% 97%	103% 96%	97% 96%	105% 96%	105% 94%	104% 95%
4 BROMOFLUORO BENZENE	93%	9376	50%	99%	JJ 70	9076	90%	3076	9376	37.76	90%	90%	9°076	34 70	93%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE





Mr. David Conner Battelle 3990 Old Town Ave. Suite B104 San Diego, CA 92110

SUBJECT: DATA REPORT – JET PROPULSION LAB – 4800 OAK GROVE DRIVE – PASADENA, CA - GEOFON PROJECT #4-73803 JPL

H&P Mobile Geochemistry Project # GF041905-L6

Mr. Conner:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (CERT #2579).

Project Summary

Soil vapor from 15 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8260B
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

H&P Mobile Geochemistry appreciates the opportunity to provide analytical services to Battelle on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely,

Ms. Tamara Davis Lab Director

HP Labs Project #GF071205-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT	SVW5-	SVW4-	SVW3-	SVW3-	SVW39-	SVW39-	SVW25-	SVW25-VPI-	SVW33-	SVW33-	SVW27-	SVW32-	SVW32-	SVW17-	SVW17-VPB-
	BLANK	VPB-001	VPB-002	VPB-003	VPC-004	VPF-005	VPI-006	VPI-007	008 Dup	VPE-009	VPG-010	VPI-011	VPI-012	VPJ-013	VPB-014	015 Dup
DATE	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05	07/12/05
ANALYSIS TIME	7:19	7:41	8:02	8:23	8:45	9:06	9:27	9:48	10:10	10:31	10:53	11:58	12:19	12:41	13:06	13:28
SAMPLING DEPTH (feet)	-	9	20	29	40	100	130	180	18	105	140	180	180	195	24	24
VOLUME WITHDRAWN (cc)		96	140	176	220	460	580	780	840	480	620	780	780	840	150	210
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	1.3	1.3	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nđ
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
CHLOROFORM	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1.1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
1,2-DICHLORO ETHANE	กต	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1.1-DICHLORO ETHENE	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1.2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
TRANS-1.2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	กฮ	nd						
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1.1.1-TRICHLORO ETHANE	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
TRICHLORO ETHENE	nd	nd	11	nd	nd	2.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd						
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	2.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nđ	nd	nd	nd	nd	nd	nd
ETHYLBENZENÉ	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	лd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd						
SURROGATES (75-125% RECOVERY)				•	•				· · · · · ·				•	•		
DIBROMODIFLUOROMETHANE	108%	108%	107%	111%	112%	108%	108%	111%	113%	112%	112%	108%	111%	107%	108%	111%
TOLUENE-D8	101% 100%	100% 109%	100% 100%	102% 101%	103% 100%	102% 103%	102% 103%	102% 96%	105% 99%	104% 102%	102%	103% 100%	103% 105%	103% 100%	105%	104%
4 BROMOFLUORO BENZENE	10070	109%	100%	10176	100%	10370	103%	90%	99%	1UZ70	97%	10070	103%	100%	102%	103%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDONS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS



Mr. David Conner Battelle 3990 Old Town Avenue Suite B104 San Diego, CA 92110

SUBJECT: DATA REPORT – JET PROPULSION LAB – 4800 OAK GROVE DRIVE – PASADENA, CA - GEOFON PROJECT #4-73803 JPL

H&P Project # GF101705-L6

Mr. Conner:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (CERT #2579).

Project Summary

Soil vapor from 106 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8260B
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

H&P Mobile GeoChemistry appreciates the opportunity to provide analytical services to Battelle on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely,

Ms. Tamara Davis

Lab Director

www.HandPmg.com r 1-800-834-9888

H&P Project #GF101705-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT	SVW31- VPA-001	SVW31- VPB-002	SVW31- VPC-003	SVW31- VPD-004	SVW31- VPE-005	SVW30- VPA-006	SVW30- VPB-007	SVW30- VPC-008	SVW30- VPD-009	SVW30-VPD-	SVW30- VPE-011	SVW12- VPB-012	SVW12- VPC-013
	BLANK										010 Dup			
DATE	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05	10/17/05
ANALYSIS TIME	7:29	7:54	8:16	8:44	9:07	9:30	9:53	10:17	10:40	11:03	11:25	12:32	12:55	13:18
SAMPLING DEPTH (feet)		20	35	45	55	65	17	30	40	50	50	65	40	60
VOLUME WITHDRAWN (cc)	-	140	200	240	280	320	128	180	220	260	320	320	220	300
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď
CHLOROETHANE	nd	กd	nd	nd	nd	nd	nd							
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1.1-DICHLORO ETHANE	nď	กป	nd	nd	nd	nď	nď	nd	nd	nd	nd	nď	nd	nd
1.2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nď	nd	nd	nd	nd
1.1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
CIS-1.2-DICHLORO ETHENE	nd	nd	nd	nd	nď	nd	nd	nd	nď	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nď	nd	nđ	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nď	nd
DICHLOROMETHANE	nd	nď	nd	nđ	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nď	nd	nd
1.1.1-TRICHLORO ETHANE	nđ	nd	nď	nd	nď	nđ								
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	กฮ	nd	nd	nd	nd	nđ	nd	nd
TRICHLORO ETHENE	nď	nd	nd	nd	nd	nđ	nd	nď	nđ	nd	nd	nd	nď	กต์
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nď	nd	nd	nđ	nd	nď	nđ	nď	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nď	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nď	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nď
BENZENE	nd	nd	nd	nd	nď	nd	лd	nd	nd	nd	nd	nď	nď	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nđ	nđ	nd	nd	nd	nd	nd	nd	กต์
ETHYLBENZENE	nď	nd	nd	nd	nd	nd								
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nđ	nd	nď	nd
o-XYLENE	n <u>d</u>	nd	nd	nd	nd	<u>n</u> đ								
SURROGATES (75-125% RECOVERY)														
DIBROMODIFLUOROMETHANE	100%	98%	97%	98%	99%	99%	96%	104%	101%	106%	106%	98%	103%	104%
TOLUENE-D8	95%	95%	94%	98%	96%	94%	94%	97%	95%	96%	95%	95%	95%	95%
4 BROMOFLUORO BENZENE	99%	99%	99%	97%	96%	95%	95%	94%	96%	94%	94%	95%	96%	94%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

H&P Project #GF101705-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

SOIL VAPOR DATA IN OUR VAPOR	AMBIENT BLANK	SVW5- VPB-014	SVW6- VPD-015	SVW6- VPE-016	SVW3- VPB-017	SVW3- VPC-018	SVW7- VPA-019	SVW7- VPB-020	SVW7-VPB- 021 Dup	SVW4- VPB-022	SVW2- VPA-023	SVW1- VPA-024	SVW1- VPB-025	SVW1- VPC-026
DATE	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05
ANALYSIS TIME	7:20	7:43	8:05	8:28	8:50	9:12	9:37	10:00	10:22	10:45	11:09	12:24	12:47	13:09
SAMPLING DEPTH (feet)		9	77	96	29	40	20	35	35	20	10	10	21	33
VOLUME WITHDRAWN (cc)		96	368	444	176	220	140	200	260	140	100	100	144	192
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	1.0	1.4	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nď	nd	nd	nd	nd	ಗರ							
CHLOROFORM	nd	nd	nd	nđ	nd	nd								
1,1-DICHLORO ETHANE	nd	nd	nd	nď	n d	nd	nd	nd	nd	nd	nď	nd	nd	nd
1,2-DICHLORO ETHANÉ	nd	nď	nd	nd	nd	nď	nd	nď	nd	nď	nd	nď	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nď	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nď	nd	nď	nd	nď	nd							
DICHLOROMETHANE	nd	nď	nd	nď	nd	nd	nd	nd						
TETRACHLORO ETHENE	nd	nd	nd	nď	nd	nd	nd	nd	nď	nd	nď	nd	nď	лď
1,1,1,2-TETRACHLORO ETHANE	nd	nď	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nď	nd	nd	nd	nđ	nd							
1,1,1-TRICHLORO ETHANE	nd	no	nd	nd	nd	nd	nď	nd	nd	nď	nd	nđ	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nď	nd	nď	nd	nď	nd							
TRICHLORO ETHENE	nd	9.5	nd	nd	nd	nd								
VINYL CHLORIDE	nd	nd	nđ	nd	nd	nď	nđ	nd	nd	nď	nd	nd	nď	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nď	nd	nď								
DICHLORODIFLUOROMETHANE (FR12)	nd	nď	nd	nd	nd	nd								
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd _	nd	nd	nd	nd	nd	nď	nď	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd								
CHLOROBENZENE	nd	nd	nď	nd	nd	nď	nď	nd	nd	nd	nd	nd	nď	nd
ETHYLBENZENE	nd	nd	nd	nď	nd	nd								
TOLUENE	nd	nd	nd	nd	nď	nd								
m&p-XYLENES	nd	nď	nd	nd	nđ	nď	nd	nd						
o-XYLENE	nđ	nd	nd	nd	nd_	nd	nd							
SURROGATES (75-125% RECOVERY)														
DIBROMODIFLUOROMETHANE	103%	100%	99%	101%	99%	104%	104%	103%	102%	103%	103%	101%	103%	103%
TOLUENE-D8	95%	94%	95%	93%	93%	95%	95%	96%	94%	95%	95%	96%	95%	95%
4 BROMOFLUORO BENZENE	96%	94%	99%	95%	95%	93%	96%	97%	95%	94%	93%	97%	94%	95%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

H&P Project #GF101705-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT	SVW32-	SVW32-	SVW32-	SVW32-VPJ	SVW27-	SVW27-VPA-	SVW27-	SVW27-	SVW27-	SVW27-	SVW27-	SVW27-	SVW27-VPJ
	BLANK	VPA-027	VPB-028	VPI-029	030	VPA-031	032 Dup	VPB-033	VPC-034	VPD-035	VPF-036	VPG-037	VPI-038	039
DATE	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05	10/19/05
ANALYSIS TIME	7:22	7:49	8:12	8:34	8:56	9:18	9:41	10:04	10:26	10:49	11:11	12:18	12:42	13:05
SAMPLING DEPTH (feet)	-	25	40	180	195	20	20	35	60	85	120	140	180	205
VOLUME WITHDRAWN (cc)		160	220	780	840	140	200	200	300	400	540	620	780	880
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.3	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nď	nd
CH! OROFORM	nd	nd	nď	nd	nd	43	45	59	4.0	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nď	nd	nď	nd	nd	กต์	nd
1.2-DICHLORO ETHANE	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd
1,1-DICHLORO ETHENE	nď	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nď	nd	nd	nd	nd	nď	nd						
DICHLOROMETHANE	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd
1.1.1.2-TETRACHLORO ETHANE	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nď	nd	nď	nď	nd	nď	nd	nd	nd	nd	nd
1.1.1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	กต่	nd	nd	nd	nd
1.1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nď	nd	nd	nd
TRICHLORO ETHENE	nd	nđ	nd	nd	nd	nď	nd	nď	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nď	nd	nd	nd	nd	nd	nd	กd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nď	nd	nd	πď	nd	nd	nd	nd	nď	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nď	nd	nd	nd	nď	nd	nđ	nd	nd	nd	nď	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nď	nd						
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	_nd	nd	nd	nd
SURROGATES (75-125% RECOVERY)														
DIBROMODIFLUOROMETHANE	105%	103%	104%	103%	102%	104%	106%	106%	107%	102%	106%	102%	103%	108%
TOLUENE-D8	97%	94%	99%	97%	94%	94%	95%	95%	96%	93%	94%	96%	95%	98%
4 BROMOFLUORO BENZENE	97%	96%	93%	94%	94%	96%	93%	95%	95%	99%	96%	96%	94%	95%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS

H&P Project #GF101705-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT	SVW11-	SVW9-	SVW9-	SVW9-VPB-	SVW9-	SVW9-	SVW9-	SVW10-	\$VW10-	SVW8-	SVW8-	SVW8-	SVW14-	SVW14-	SVW14-VPE
	BLANK	VPB-040	VPA-041	VPB-042	043 Dup	VPC-044	VPD-045	VPE-046	VPB-047	VPD-048	VPC-049	VPD-050	VPE-051	VPA-052	VPB-053	054 Dup
DATE	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05	10/20/05
ANALYSIS TIME	7:33	8:02	8:25	8:47	9:09	9:31	9:55	10:18	10:42	11:04	11:36	12:45	13:07	13:29	13:52	14:13
SAMPLING DEPTH (feet)		40	20	35	35	50	70	87	35	69	50	70	90	5	10	10
VOLUME WITHDRAWN (cc)		220	140	200	260	260	340	408	200	336	260	340	420	80	100	160
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nđ	nd	nd	nď	nđ	nd	nd	nd	nď	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nď	nď	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	೧ರ	nd	nď	nd	nď	nd	nď
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nď	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nď	nd	nď	nd	nď	nď	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nď	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nď	nď	nd	nď	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	กฮ์	nd	nd	nd	nd	ಗರ	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nđ	nd	nd	nd	nd	nd	nď	nd	nd	กฮ	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nď	nď	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd
VINYL CHLORIDE	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nđ
TRICHLOROFLUOROMETHANE (FR11)	nd	nď	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	2.2	nd	<u>nd</u>	nď	nd	nd	nd	_ nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
SURROGATES (75-125% RECOVERY)																
DIBROMODIFLUOROMETHANE	104%	105%	103%	105%	105%	106%	107%	103%	105%	105%	107%	103%	107%	104%	98%	104%
TOLUENE-D8	96%	93%	94%	95%	95%	98%	97%	94%	96%	95%	94%	95%	93%	97%	93%	98%
4 BROMOFLUORO BENZENE	97%	96%	97%	95%	94%	94%	95%	91%	97%	94%	95%	99%	96%	95%	97%	99%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDONS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

H&P Project #GF101705-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT	SVW33-	SVW33- VPB-056	SVW33-	SVW33-	SVW33- VPE-059	SVW33-	SVW33-	SVW33-	SVW36-	SVW36-VPA-	SVW36-	SVW36-	SVW36-	SVW36-
	BLANK	VPA-055		VPC-057	VPD-058		VPF-060	VPG-061	VPJ-062	VPA-063	064 Dup	VP8-065	VPC-066	VPD-067	VPE-068
DATE	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05	10/21/05
ANALYSIS TIME	6:42	7:03	7:25	7:48	8:11	8:34	8.55	9:16	9:38	10:01	10:25	11:27	11:50	12:12	12:35
SAMPLING DEPTH (feet)		20	40	60	85	105	120	140	200	20	20	35	55	75	92
VOLUME WITHDRAWN (cc)		140	220	300	400	480	540	620	860	140	200	200	280	360	428
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nď	nd	nď	nd	nd	nd	nd	nď	nd	nď	nd	nd	nd	nd	nđ
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nď	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nď	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nď	nd	nď	nď	nď	nd	nd	nd	nd	nd	nd	nď
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
DICHLOROMETHANE	nd	nd	nd	nď	nd	nd	nď	nď	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nď	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1.1.1.2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nď	nd	nd	nd	nď
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nď	nď	nd	nd
1.1.1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nď	nd	nď	nd	nd	nd	nd	nd	nd	nď	nď	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nď	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nď
CHLOROBENZENE	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nď	nd	กต่	nd	nď	nď	nd	nd
TOLUENE	nď	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nď
m&p-XYLENES	nd	nd	nď	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	пd	nd	nd	πd	nď	nd	_nd	nd	nd
SURROGATES (75-125% RECOVERY)															
DIBROMODIFLUOROMETHANE	104%	105%	104%	103%	104%	102%	105%	103%	106%	103%	104%	107%	104%	107%	106%
TOLUENE-D8	95%	95%	96%	95%	95%	95%	95%	94%	96%	94%	95%	95%	95%	95%	95%
4 BROMOFLUORO BENZENE	92%	97%	96%	96%	92%	98%	94%	93%	94%	93%	93%	97%	95%	92%	92%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

H&P Project #GF101705-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT	SVW28-	SVW28-	SVW28-	SVW28-	SVW25-	SVW25-	SVW25-VPB-	SVW25-	SVW35-	SVW35-	SVW35-	SVW35-
	BLANK	VPA-069	VPC-070	VPD-071	VPE-072	VPA-073	VPB-074	075 Dup	VPD-076	VPA-077	VPB-078	VPE-079	VPJ-080
DATE	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05	10/24/05
ANALYSIS TIME	7;19	7:42	8:05	8:29	8:52	9:30	9:53	10:16	10:38	11:08	11:37	12:43	13:09
SAMPLING DEPTH (feet)		20	65	80	105	20	40	40	85	20	35	80	155
VOLUME WITHDRAWN (cc)		140	86	380	480	140	220	280	400	140	200	380	680
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nď	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nď
CHLOROFORM	nd	nď	nd	nď	nd	nd	nd	nđ	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd							
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd							
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nđ	nđ	nd	nd	nd	nd	nd	nď	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd							
DICHLOROMETHANE	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nď	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd							
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nđ	nđ	nd							
1,1,2-TRICHLORO ETHANE	nď	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nď	nď	nd							
VINYL CHLORIDE	nď	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nď	nđ	nd	nď	nđ	nd	nď	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nđ	nd	nd	nď	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd							
BENZENE	nd	nd	nd	nđ	nď	nd							
CHLOROBENZENE	nd	nd	nď	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nď	nd	nđ	nd	nď	nd						
TOLUENE	nd	nd	nd	nd	nd	nd							
m&p-XYLENES	nd	nd	nd	nd	nd	nd							
o-XYLENE	nd	nd	nd	nd	nd	nd							
SURROGATES (75-125% RECOVERY)													
DIBROMODIFLUOROMETHANE	106%	105%	108%	109%	105%	107%	105%	108%	107%	106%	105%	105%	106%
TOLUENE-D8	95%	95%	94%	97%	95%	94%	97%	95%	95% 93%	95%	95%	94%	97% 069/
4 BROMOFLUORO BENZENE	93%	99%	96%	94%	96%	96%	93%	94%	93%	96%	95%	94%	96%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

H&P Project #GF101705-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UGAL-VAPOR

SOLE VALOR DATA IN OCC-VALOR	AMBIENT BLANK	SVW37- VPB-081	SVW37- VPD-082	SVW37- VPE-083	\$VW37- VPG-084	SVW37- vPH-085	SVW37- VPI-086	SVW37-VPJ 087	SVW19A- VPC-088	SVW19A-VPC- 089 Dup	SVW38- VPA-090	SVW38- VPD-091	SVW38- VPF-092	SVW38-VPJ- 093	SVW34+ VPD-094	\$VW34- VPE-095	SVW34- VPF-096
DATE	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10/25/05	10.25.05
ANALYSIS TIME	6:48	7:13	7:35	7:58	8:20	8:42	9:04	9:26	9:50	10:12	10:41	11:50	12:12	12:34	12.56	13:19	13:42
SAMPLING DEPTH (feet)		40	80	100	140	155	170	185	60	60	85	80	110	170	65	80	95
VOLUME WITHDRAWN (cc)		220	380	460	620	680	740	800	300	360	160	380	500	740	320	380	440
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nď	nd	nď	nd	nď	nd	nď
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nđ	nd	nd	nd	nd	nd	nď	nd	nd	nd	nď	nd	nd	nd	nď	nd	nď
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	กดี	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nď	nd	nd	nd	nd	ಗರ	nd	nd	nd	nd	nď	nď	nd	nđ
TETRACHLORO ETHENE	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nď	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	пđ	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd	nď	nd	nd	nd	nď	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nď	nd	nď	nd	nď	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nđ	nd	nd	nd	nd	nď	nd	nd	nd	nď	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nď	nď	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nď	nd	nd	пđ	nd	nd	nd	nđ	nd	nď	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď
BENZENE	nd	nd	nđ	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nď	nd	nd	rici*	nd	nd	nd	nd	nd	nd	nd	nď	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd
o-XYLENE	nd	nd	nd	nđ	nd	nd	nd	nd	nd	nď	nd	nd	nd	nd	nd	nd	nď
SURROGATES (75-125% RECOVERY)																	
DIBROMODIFLUOROMETHANE	105%	108%	106%	114%	108%	105%	105%	108%	107%	109%	106%	105%	106%	105%	109%	107%	104%
TOLUENE-D8	94%	95%	95%	98%	96%	94%	95%	97%	94%	95%	93%	92%	94%	93%	96%	94%	96%
4 BROMOFLUORO BENZENE	94%	94%	94%	95%	93%	90%	95%	93%	95%	94%	92%	97%	92%	94%	96%	97%	89%

A BROMOFLUORO BENZENE 94% 94% 95%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE DATA REVIEWED BY: TAMARA DAVIS

H&P Project #GF101705-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT	SVW15-	SVW15-VPB-	SVW15-	SVW15-	SVW15-	SVW39-	SVW39-	SVW39-	SVW39-	SVW39-
	BLANK	VPB-097	098 Dup	VPC-099	VPD-100	VPE-101	VPA-102	VPE-103	VPF-104	VPG-105	VPI-106
DATE	10/26/05	10/26/05	10/26/05	10/26/05	10/26/05	10/26/05	10/26/05	10/26/05	10/26/05	10/26/05	10/26/05
ANALYSIS TIME	7:10	7:33	7:55	8:18	8:41	9:03	9:26	9:48	10:09	10:32	10:55
SAMPLING DEPTH (feet)		40	40	60	75	90	20	85	100	110	130
VOLUME WITHDRAWN (cc)		220	280	300	360	420	140	400	460	500	580
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05_	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nď	nď	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nđ	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1.2-DICHLORO ETHANE	nd	nd	nd	nd	nď	nd	nď	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ηd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
DICHLOROMETHANE	nď	nď	nď	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nđ	nď	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nď	nd	nd	nd	nd	nd	nd	nd	nd	nd	nđ
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nđ	nd	nđ	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	1.9	nd	nd
VINYL CHLORIDE	nd	nd	nd	nđ	nd	nd	nđ	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nď	nd	nd	nd	nd	nd	nd	nd	nď
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nď	nd	nd	nd
BENŻENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	n d	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nđ	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nď
m&p-XYLENES	nd	nď	nd	nd	nd	nď	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES (75-125% RECOVERY)											
DIBROMODIFLUOROMETHANE	105%	106%	111% 95%	107% 9 7 %	108% 97%	111% 97%	108% 95%	108% 97%	107% 96%	104% 96%	108% 94%
TOLUENE-D8 4 BROMOFLUORO BENZENE	94% 93%	94% 95%	95% 98%	97%	97% 94%	97% 93%	95% 96%	96%	96% 95%	96% 92%	94% 96%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CAIDOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

APPENDIX B-2: CHAIN-OF-CUSTODY FORMS

CHAIN-OF-CUSTODY RECORD

PROJECT FILE

22632 GOLDEN SPRINGS DR., SUITE 270 DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

GEOFON's LAB COORDINATOR	LAB COORDINATOR			LAB COORE	NATOR'S		 		ORY SERVICE	. I .	ABORATOR			MAIL REPORT (COMPANY NAME)
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CHAIN-OF-CUSTODY RECORD

PROJECT FILE

22632 GOLDEN SPRINGS DR., SUITE 270

	DIAMOND BAR																	
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SG	OTT BREITHER	109	- 390	g - 76	62	909	<u>- 39 (</u>	6-14	53_	GFOLO	305.1	6 1	1AKK	(Lu	IKKE		BATTELLE	
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PROI	FCT CONTACT	PROJECT P	HONE NUM	(REP		PROJECT	FAY			LABORATI	ORY ADDRESS	5					ADDRESS	6104
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CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

1 N C O R P O R A T E D 22632 GOLDEN SPRINGS DR., SUITE 270

DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

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Project Information Section
For Project Personnel Only
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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

22632 GOLDEN SPRINGS DR., SUITE 270 DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455 LAB COORDINATOR'S PHONE LAB COORDINATOR'S FAX GEOFON'S LAB COORDINATOR LABORATORY SERVICELD LABORATORY CONTACT MAIL REPORT (COMPANY NAME) 909-306-7662 939-296-1455 PATTELLE PROJECT NAME: PROJECT LOCATION PROJECT NUMBER LABORATORY PHONE LABORATORY FAX RECIPIENT NAME Tec Ha CVW SAMPLING-DAVID COMMER 4-72503 834 72-0401 5-x- 793-040L PROJECT PHONE NUMBER LABORATORY ADDRESS 614-848- 9968 624- 254- 0200 4137 AL CEDRUS ALE PROJECT ADDRESS CITY, STATE AND ZIPCODE BATTELLE PROJECT MANAGER'S PROJECT MANAGER PROJECT MANAGER'S FAX 919-196-7662 ASRIC FAHREN Comments Sample Identifier Sm 76- 4711-011 40 66 SULDING U NAM Month SVW 7 - VPA - 312 1246 5 V.W. 6 - 117/3 - 12/3 1308 SAMPLES COLLECTED BY: COOLER TEMPERATURE UPON RECEIPT COURIER AND AIR SILL NUMBER SAMPLE'S CONDITION UPON RECEIPT RELINQUISHED BY DATE TIME 4-19-05 1210 and the same of the same of

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section
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QC - Quality Control Sample

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GEOFON

CHAIN-OF-CUSTODY RECORD

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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

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## GEOFON

### CHAIN-OF-CUSTODY RECORD

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DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455 LAB COORDINATOR'S FAX LAB COORDINATOR'S PHONE MAIL REPORT (COMPANY NAME) LABORATORY SERVICE IO LABORATORY CONTACT GF 341805- Lb 909 396 7662 MARK BURGE BATTELLE PROJECT LOCATION PROJECT NAME PROJECT NUMBER LABORATORY PHONE LABORATORY FAX RECIPIENT NAME 4-73803 SUW SAMPLING 858-743-0431 858-798-0434  $\mathbb{D}A \cup I \cap$ PROJECT CONTACT PROJECT PHONE NUMBER LABORATORY ADDRESS 619-843- 9068 626-296-0200 437 N. CEDRUS AVE 3900 010 TOL PROJECT ADDRESS CITY, STATE AND ZIPCODE CITY, STATE AND ZIPCODE CITY, STATE AND ZIPCODE PASADENA CA 91109 BATTELLE 4500 DAIK GIZALF DA PROJECT MANAGER'S PROJECT MANAGER'S FAX PROJECT MANAGER 909. 396- 7662 909-396-1455 # of Cont. Comments Sample Identifier 50W37 - UPAL- 324 SMIZINKE 4/2/6 1158 NUNE Ш AIR NOWM SUW 31- UPD - UZS 1720 SUW33 - WEE - 076 1242 SUWD - UPF-027 17 541 9 10 SAMPLES COLLECTED BY: COURIER AND AIR BILL NUMBER: COOLER TEMPERATURE UPON RECEIPT TIME SAMPLE'S CONDITION UPON RECEIPT RELINQUISHED BY DATE And the second second 4 23.05 /3/5 Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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QC - Quality Control Sample

## CHAIN-OF-CUSTODY RECORD

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22632 GOLDEN SPRINGS DR., SUITE 270

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PROJECT CONTACT											LABORATO	RY ADDRE	\$\$					ADDRESS 3940 OLO TAWA AVE 15104 CITY, STATE AND ZIPCODE
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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

### CHAIN-OF-CUSTODY RECORD

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Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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## **CHAIN-OF-CUSTODY RECORD**

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**Project Information Section** For Project Personnel Only Do Not Submit to Laboratory

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## CHAIN-OF-CUSTODY RECORD

PROJECT FILE

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## CHAIN-OF-CUSTODY RECORD

PROJECT FILE

22632 GOLDEN SPRINGS DR., SUITE 270

DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455 LAB COORDINATOR'S PHONE LAB COORDINATOR'S FAX GEOFON's LAB COORDINATOR LABORATORY SERVICE ID LABORATORY CONTACT MAIL REPORT (COMPANY NAME) GF071205-L6 619- 843-9968 PROJECT LOCATION 626-296-0200 MARK BUNKE BATTELLE MARCO MENDOSA PROJECT NUMBER LABORATORY PHONE LABORATORY FAX RECIPIENT NAME PROJECT PHONE NUMBER PROJECT FAX 858-793-0401 858-793-0404 3005-SVE JPL 4-73803 DAWD ... PROJECT CONTACT LABORATORY ADDRESS ADDRESS 619-843-9968 <u>626-296 0200</u> 437 N. CEDROS AVE 3990 AS TOWN AVE, STE. C-205 CITY, STATE AND ZIPCODE PROJECT ADDRESS CITY, STATE AND ZIPCODE CITY, STATE AND ZIPCODE PASADENA CA 9/109
PROJECT MANAGER'S
PHONE BATTFLLE SAN DIEGO, CA 4800 DAK GAME DA SOLANA PROJECT MANAGER PROJECT MANAGER'S FAX 13020 909-396-1455 919- 396- 7662 FORD a Level Matrix Comments Sample Identifier *- 60 CC SURINGE SUW27- VPI- 211 A112 7/11/5/1136 IIINorse SUW32- UPI-OIL 1158 UN32- UPJ-013 1220 5UM 7- UPB-014 1242 SUNIT- VPB-015 (DUTE) DUPLICATE 8 9 10 COOLER TEMPERATURE UPON RECEIPT SAMPLES COLLECTED BY COURTER AND AIR BILL NUMBER RELINQUISHED BY SAMPLE'S CONDITION UPON RECEIPT 7-12-05 1245

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

## CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

	22632 GOLDE DIAMOND BAR				: • FAX (909	9) 396-145	55										•		
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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

## **CHAIN-OF-CUSTODY RECORD**

PROJECT DATA MANAGER'S COPY

	22632 GOLDER	N SPRINGS	S DR., SU	ITE 270	EAV (OPP	. 306 1455																
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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Sample Type: G - Grab, C - Compo QC - Quality Control	site, F Sampl	- Fiel le	d Sam	ple,

## **CHAIN-OF-CUSTODY RECORD**

PROJECT DATA MANAGER'S COPY

22632 GOLDEI DIAMOND BAF	N SPRINGS DR., SUITE 270 I, CA 91765 • (909) 396-7662 • FAX (909	9) 396-1455				Project Information	Section
GEOPON'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)	For Project Personn	el Only
MALCO MENDOZA PROJECT NAME	909-396-766Z	909-396-1455	GF101835-16	MARK BURKE	BATTELE	Do Not Submit to La	aboratory
PROJECT NAME	PROJECT LOCATION ANYUAL SYM SAMP.	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX 858-793-0404	RECIPIENT NAME DAVID CONNER		
PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	13 78 773 0107	ADDRESS		•
DAVID CONNER PROJECT ADDRESS	619 -843 - 9968 CITY STATE AND ZIPCODE	676-796-0700	437 N. CG	DROS AVE	3990 OLD TOWN AVE \$ 8104		
		CLIENT	CITY. STATE AND ZIPCODE		CITY, STATE AND ZIPCODE		
4800 OAK CHOVE DE	PROJECT MANAGER'S	CATTELLE	SOLAND BY	ENCH CA 97.075	SAN DIEGO CA 97110		
	BI/Ov#		1				
ASRAR FAHFEM	909-396-7662		1585 107				Sample Type
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Dist	ribution: White - Laboratory (7	Γο be returned with Analytical R	eport); Goldenrod -	Project File; Yellow - Pro	oject Data Manager	Sample Type: G - Grab, C - Composite QC - Quality Control Sa	

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Sample Point Location	G	С	F	QC
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Comments				

## CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

	22632 GOLDE DIAMOND BAF	N SPRING R, CA 917	3S DR., St 65 • (909)	JITE 270 3 <mark>96-766</mark> 2	• FAX (909	9) 396-145!	5								57		
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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

			Sample Type			
Sample Point Location			G	С	F	QC
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3)	V	II 33'				
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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

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## GEOFON

## CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455 GEOFON'S LAB COORDINATOR LAB COORDINATOR'S FAX LABORATORY SERVICE ID LABORATORY CONTACT MAIL REPORT (COMPANY NAME) MARCO MENDOZA GF101705-16 MAYLK BURKE ATTELLE PROJECT LOCATION PROJECT NUMBER 4-73803 LABORATORY PHONE 858-793-0461 858- 773-0404 ANNUAL SIM SAMPLING DAVID CONNER PROJECT CONTACT PROJECT PHONE NUMBER LABORATORY ADDRESS DAVID CONNER 616-296-0200 437 N. CEDROS NE 3990 OLD TOWNAVE CITY, STATE AND ZIPCODE 4300 OAKCALOVE DE PARADIENA CA 91108 SOLANA BEACH CA 92075 SAN DIEGO PROJECT MANAGER PHONE 9-396-7662 Sample Identifier Comments SUN32-VPA-027 54811068 51/W 32 - VFB-028 Smu 32 - VFI-027 SMW32-VPJ-030 Sm 27-VFA-03 512V27-18A-032 DUPLICATE WORLICATE S-W27-116-033 746 58W27-V1C-1034 1008 1030 1052 SAMPLES COLLECTED BY COURIER AND AIR BILL NUMBER: COOLER TEMPERATURE UPON RECEIPT RELINQUISHED BY SAMPLE'S CONDITION UPON RECEIPT 10-19-05 1245 Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

## Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Sample Point Location	G	С	F	QC
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3) 11 11 180'				
4) 11 11 1951				
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6) 1) 11 20'				
DUPLICATE.				
2) 11 11 35'			$\dashv$	
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9) 11 11 85'		$\exists$		
16) 11 1/ 120 /			:	
Comments		!		

Sample Type: G - Grab, C - Composite, F - Field Sample,

OC - Quality Control Sample

2 OF 2

## GEOFON

## CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

	22632 GOLDEN SPRINGS DR., SUITE 270 DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455																		
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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

1 OF Z

## GEOFON

## **CHAIN-OF-CUSTODY RECORD**

PROJECT DATA MANAGER'S COPY

22632 GOLDEN SPRINGS DR., SUITE 270 DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455																	
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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Comments				<u> </u>	

Sample Type: G - Grab. C - Composite, F - Field Sample, QC - Quality Control Sample

20F 2

GEOFON

## **CHAIN-OF-CUSTODY RECORD**

PROJECT DATA MANAGER'S COPY

	22632 GOLDEN SPRINGS DR., SUITE 270 DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455																			
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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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# GEOFON

## CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

22632 GOLDEN SPRINGS DR., SUITE 270 DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455 GEOFON'S LAB COORDINATOR LAB COORDINATOR'S PHONE LAB COORDINATOR'S FAX LABORATORY SERVICE 1D LABORATORY CONTACT MAIL REPORT (COMPANY NAME) 302-34-7212 3-10 20 1/05 C GF101705-16 AMER BURKS PROJECT LOCATION PROJECT NUMBER LABORATORY PHONE LABORATORY FAX RECIPIENT NAME 258-797-11401 858-703-10409 734 175 8 2 .... 22 PROJECT CONTACT PROJECT PHONE NUMBER PROJECT FAX LABORATORY ADDRESS PROJECT ADDRESS CITY, STATE AND ZIPCODE CITY, STATE AND ZIPCODE CITY, STATE AND ZIPCODE PROJECT MANAGER PROJECT MANAGER'S PROJECT MANAGER'S FAX MANTE SAMES OF 924 391 7177 Sample Identifier Comments 50033-VPA-055 1 * 1 1 SW24/2 54233- VPB-056 SUN33- VPC-057 50037-VPD-008 SUN 33- VPE-059 5VNU33- VPF-060 5,2033- YPG-061 SVW33- VP J-062 SW 36-VPA-063 SW36- VPA-064 0940 TO IPLICATE. SAMPLES COLLECTED BY COURIER AND AIR BILL NUMBER: RELINQUISHED BY SAMPLE'S CONDITION UPON RECEIPT Mary mark 10 -11-05 12 70 Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

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**GEOFON** 

## CHAIN-OF-CUSTODY RECORD

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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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# GEOFON

## CHAIN-OF-CUSTODY RECORD

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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

Comments

# GEOFON

## CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

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## GEOFON

## CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

22632 GOLDEN SPRINGS DR., SUITE 270 DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Sample Type: G - Grab, C - Composite, F · Field Sample, QC - Quality Control Sample

Comments

# GEOFON

## **CHAIN-OF-CUSTODY RECORD**

PROJECT DATA MANAGER'S COPY

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GEOF	ON's LAB COORDINATOR	LAB COO	RDINATOR'S	PHONE		LAB COO	RDINATOR'S	FAX		LABOR	ATORY SE	RVICE 1D	LABOR	ATORY CON	TACT		MAIL REPORT (COMPANY NAME)
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Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

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Sample Type: G - Grab, C - Compo QC - Quality Control			d Sam	ple,

# GEOFON

## **CHAIN-OF-CUSTODY RECORD**

PROJECT DATA MANAGER'S COPY

22632 GOLDEN SPRINGS DR., SUITE 270 DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

GEOF	ON'S LAB COORDINATOR	LAB COOR	DINATOR'S	PHONE	,	LAB COO	RDINATOR'S	FAX		LAB	ORATORY	SERVICE ID	LAE	ORATORY	CONTAC	т		MAIL REPORT (COMPANY NAME)
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Project Information Section For Project Personnel Only Do Not Submit to Laboratory

		Samp	ole Ty	уре
Sample Point Location	G	С	F	QC
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Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

## **APPENDIX B-3:**

DAILY OPENING, CLOSING AND CONTINUING CALIBRATION VERIFICATION REPORTS

DATE: 02/03/05 HP Labs Project #GF020305-L6 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-946

SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-945

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER LAB-6

	OPE	NING STANDARD	)		2ND SOURCE	
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	50,9	1.8%	50	44.6	10.8%
CHLOROETHANE	50	47.8	4.4%	50	49.3	1.4%
CHLOROFORM	50	49.5	1.0%	50	50.5	1.0%
1,1-DICHLORO ETHANE	50	49,5	1.0%	50	52.1	4.2%
1,2-DICHLORO ETHANE	50	49.3	1.4%	50	53.4	6.8%
1,1-DICHLORO ETHENE	50	50.6	1.2%	50	51.9	3.8%
CIS-1,2-DICHLORO ETHENE	50	50.8	1.6%	50	51.7	3.4%
TRANS-1,2-DICHLORO ETHENE	50	48.7	2.6%	50	51.3	2.6%
DICHLOROMETHANE	50	45.6	8.8%	50	46.3	7.4%
TETRACHLORO ETHENE	50	51.7	3.4%	50	53.0	6.0%
1,1,1,2-TETRACHLORO ETHANE	50	50.2	0.4%	50	44.5	11.0%
1,1,2,2-TETRACHLORO ETHANE	50	46.8	6.4%	50	47.5	5.0%
1,1,1-TRICHLORO ETHANE	50	52.1	4.2%	50	48.2	3.6%
1,1,2-TRICHLORO ETHANE	50	49.3	1.4%	50	50.6	1.2%
TRICHLORO ETHENE	50	48.4	3.2%	50	51.4	2.8%
VINYL CHLORIDE	50	46.9	6.2%	50	47.4	5.2%
TRICHLOROFLUOROMETHANE (FR11)	50	48.8	2.4%	50	51.4	2.8%
DICHLORODIFLUOROMETHANE (FR12)	50	43.7	12.6%	50	48.2	3.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	45.4	9.2%	50	48.9	2.2%
BENZENE	50	49.6	0.8%	50	49.7	0.6%
CHLOROBENZENE	50	49.5	1.0%	50	50.6	1.2%
ETHYLBENZENE	50	48.6	2.8%	50	49.4	1.2%
TOLUENE	50	50.7	1.4%	50	49.0	2.0%
m&p-XYLENES	100	101	1.0%	100	102	2.0%
o-XYLENE	50	50.0	0.0%	50	49.7	0.6%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

DATE: 02/03/05 MIDDAY CALIBRATION VERIFICATION
HP Labs Project #GF020305-L6 SUPPLY SOURCE: SUPELCO LOT #LSS-946

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER Lab 6 CONTINUING STANDARD **MASS** COMPOUND RESULT %DIFF CARBON TETRACHLORIDE 50 47.5 5.0% CHLOROETHANE 50 52.5 5.0% CHLOROFORM 50 51.1 2.2% 1,1-DICHLORO ETHANE 50 52.4 4.8% 1.2-DICHLORO ETHANE 50 55.1 10.2% 1,1-DICHLORO ETHENE 50 53.4 6.8% CIS-1,2-DICHLORO ETHENE 50 53.4 6.8% 50 TRANS-1.2-DICHLORO ETHENE 51.7 3.4% DICHLOROMETHANE 50 47.3 5.4% TETRACHLORO ETHENE 50 51.6 3.2% 1.1.1.2-TETRACHLORO ETHANE 50 44.2 11.6% 1,1,2,2-TETRACHLORO ETHANE 50 45.8 8.4% 1.1.1-TRICHLORO ETHANE 50 51.0 2.0% 1.1.2-TRICHLORO ETHANE 50 50.3 0.6% TRICHLORO ETHENE 50 51.6 3.2% VINYL CHLORIDE 50 51.2 2.4% 9.2% TRICHLOROFLUOROMETHANE (FR11) 50 54.6 DICHLORODIFLUOROMETHANE (FR12) 50 51.2 2.4% 1.1.2-TRICHLOROTRIFLUOROETHANE (FR113) 50 51.5 3.0% BENZENE 50 50.9 1.8% 50 CHLOROBENZENE 50.8 1.6% ETHYLBENZENE 50 52.2 4.4% TOLUENE 50 51.4 2.8% m&p-XYLENES 100 106 6.0% 50 51.6 3.2% o-XYLENE

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

## SOIL GAS INITIAL LCS STANDARD REPORT (CALIBRATION VERIFICATION)

LAB: Lab 6

SUPPLY SOURCE: SUPELCO LOT #LSS-945

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	CAL DATE	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	1/31/2005	50	46.4	7.2%
CHLOROETHANE	1/31/2005	50	50.7	-1.4%
CHLOROFORM	1/31/2005	50	50.7	-1.4%
1,1-DICHLORO ETHANE	1/31/2005	50	50.3	-0.6%
1,2-DICHLORO ETHANE	1/31/2005	50	49.2	1.6%
1,1-DICHLORO ETHENE	1/31/2005	50	45.2	9.6%
CIS-1,2-DICHLORO ETHENE	1/31/2005	50	53.5	-7.0%
TRANS-1,2-DICHLORO ETHENE	1/31/2005	50	47.4	5.2%
DICHLOROMETHANE	1/31/2005	50	45.1	9.8%
TETRACHLORO ETHENE	1/31/2005	50	49.7	0.6%
1,1,1,2-TETRACHLORO ETHANE	1/31/2005	50	47.5	5.0%
1,1,2,2-TETRACHLORO ETHANE	1/31/2005	50	48.4	3.2%
1,1,1-TRICHLORO ETHANE	1/31/2005	50	46.8	6.4%
1,1,2-TRICHLORO ETHANE	1/31/2005	50	51.8	-3.6%
TRICHLORO ETHENE	1/31/2005	50	50.4	-0.8%
VINYL CHLORIDE	1/31/2005	50	51.5	-3.0%
TRICHLOROFLUOROMETHANE (FR11)	1/31/2005	50	47.0	6.0%
DICHLORODIFLUOROMETHANE (FR12)	1/31/2005	50	53.9	-7.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	1/31/2005	50	43.6	12.8%
BENZENE	1/31/2005	50	50.1	-0.2%
ETHYLBENZENE	1/31/2005	50	52.7	-5.4%
TOLUENE	1/31/2005	50	52.7	-5.4%
m&p-XYLENES	1/31/2005	100	107	-6.7%
o-XYLENE	1/31/2005	50	54.8	-9.6%

ANALYSES PERFORMED IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

## **H&P Mobile Geochemistry**

## SOIL GAS INITIAL LCS STANDARD REPORT (CALIBRATION VERIFICATION)

LAB: Lab 6

SUPPLY SOURCE: SUPELCO LOT #LSS-972

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	CAL DATE	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	4/18/2005	50	49.8	0.4%
CHLOROETHANE	4/18/2005	50	50.2	-0.4%
CHLOROFORM	4/18/2005	50	48.5	3.0%
1,1-DICHLORO ETHANE	4/18/2005	50	49.8	0.4%
1,2-DICHLORO ETHANE	4/18/2005	50	48.6	2.8%
1,1-DICHLORO ETHENE	4/18/2005	50	51.8	-3.6%
CIS-1,2-DICHLORO ETHENE	4/18/2005	50	50.8	-1.6%
TRANS-1,2-DICHLORO ETHENE	4/18/2005	50	50.8	-1.6%
DICHLOROMETHANE	4/18/2005	50	49.7	0.6%
TETRACHLORO ETHENE	4/18/2005	50	49.1	1.8%
1,1,1,2-TETRACHLORO ETHANE	4/18/2005	50	47.1	5.8%
1,1,2,2-TETRACHLORO ETHANE	4/18/2005	50	50.0	0.0%
1,1,1-TRICHLORO ETHANE	4/18/2005	50	49.5	1.0%
1,1,2-TRICHLORO ETHANE	4/18/2005	50	48.8	2.4%
TRICHLORO ETHENE	4/18/2005	50	48.7	2.6%
VINYL CHLORIDE	4/18/2005	50	50.7	-1.4%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	4/18/2005	50	50.8	-1.6%
BENZENE	4/18/2005	50	51.3	-2.6%
ETHYLBENZENE	4/18/2005	50	50.6	-1.2%
roluene	4/18/2005	50	51.3	-2.6%
n&p-XYLENES	4/18/2005	100	105	-5.0%
D-XYLENE	4/18/2005	50	51.0	-2.0%

ANALYSES PERFORMED IN CA DOHS MOBILE LABORATORY #2579

DATE: 04/19/05 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-971

H&P Project #GF0419Q5-L6 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-972

IAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

LAB-0	<u> </u>	PENING STANDA		2ND SOURCE			
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF	
CARBON TETRACHLORIDE	50	53.4	6.8%	50	44.5	11.0%	
CHLOROETHANE	50	52.6	5.2%	50	43.8	12.4%	
CHLOROFORM	50	49.7	0.6%	50	46.7	6.6%	
1,1-DICHLORO ETHANE	50	51.7	3.4%	50	47.6	4.8%	
1,2-DICHLORO ETHANE	50	45.6	8.8%	50	49.3	1.4%	
1,1-DICHLORO ETHENE	50	52.3	4.6%	50	48.5	3.0%	
CIS-1,2-DICHLORO ETHENE	50	51.9	3.8%	50	49.7	0.6%	
TRANS-1,2-DICHLORO ETHENE	50	52.1	4.2%	50	48.4	3.2%	
DICHLOROMETHANE	50	46.4	7.2%	50	46.7	6.6%	
TETRACHLORO ETHENE	50	51.3	2.6%	50	47.4	5.2%	
1,1,1,2-TETRACHLORO ETHANE	50	48.9	2.2%	50	46.5	7.0%	
1,1,2,2-TETRACHLORO ETHANE	50	47.0	6.0%	50	46.5	7.0%	
1,1,1-TRICHLORO ETHANE	50	50.4	0.8%	50	47.2	5.6%	
1,1,2-TRICHLORO ETHANE	50	46.9	6.2%	50	49.1	1.8%	
TRICHLORO ETHENE	50	49.8	0.4%	50	46.5	7.0%	
VINYL CHLORIDE	50	52.6	5.2%	50	41.6	16.8%	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	59.8	19.6%	50	52.9	5.8%	
BENZENE	50	52.8	5.6%	50	48.5	3.0%	
CHLOROBENZENE	50	49.4	1.2%	50	47.7	4.6%	
ETHYLBENZENE	50	52.4	4.8%	50	48.0	4.0%	
TOLUENE	50	53.3	6.6%	50	49.3	1.4%	
m&p-XYLENES	100	110	10.0%	100	100	0.0%	
o-XYLENE	50	53.4	6.8%	50	49.4	1.2%	

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

## **H&P Mobile Geochemistry**

DATE: 04/19/05

H&P Project #GF041905-L6

## QA/QC CALIBRATION DATA

MIDDAY CALIBRATION VERIFICATION

SUPPLY SOURCE: SUPELCO LOT #LSS-971

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	CONTINUING STANDARD				
COMPOUND	MASS	RESULT	%DIFF		
CARBON TETRACHLORIDE	50	46.7	6.6%		
CHLOROETHANE	50	50.5	1.0%		
CHLOROFORM	50	50.8	1.6%		
1,1-DICHLORO ETHANE	50	51.0	2.0%		
1,2-DICHLORO ETHANE	50	50.9	1.8%		
1,1-DICHLORO ETHENE	50	50.7	1.4%		
CIS-1,2-DICHLORO ETHENE	50	53.1	6.2%		
TRANS-1,2-DICHLORO ETHENE	50	50.2	0.4%		
DICHLOROMETHANE	50	51.3	2.6%		
TETRACHLORO ETHENE	50	48.7	2.6%		
1,1,1,2-TETRACHLORO ETHANE	50	48.4	3.2%		
1,1,2,2-TETRACHLORO ETHANE	50	47.8	4.4%		
1,1,1-TRICHLORO ETHANE	50	49.8	0.4%		
1,1,2-TRICHLORO ETHANE	50	50.7	1.4%		
TRICHLORO ETHENE	50	50.0	0.0%		
VINYL CHLORIDE	50	50.2	0.4%		
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	58.8	17.6%		
BENZENE	50	52.6	5.2%		
CHLOROBENZENE	50	49.7	0.6%		
ETHYLBENZENE	50	49.8	0.4%		
TOLUENE	50	53.1	6.2%		
m&p-XYLENES	100	107	7.0%		
o-XYLENE	50	53.1	6.2%		

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATE: 04/20/05 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-971 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-972

H&P Project #GF041905-L6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER LAB-6

	OF	OPENING STANDARD			2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF	
CARBON TETRACHLORIDE	50	52.5	5.0%	50	52.8	5.6%	
CHLOROETHANE	50	46.7	6.6%	50	47.9	4.2%	
CHLOROFORM	50	49.7	0.6%	50	50.8	1.6%	
1,1-DICHLORO ETHANE	50	50.5	1.0%	50	51.1	2.2%	
1,2-DICHLORO ETHANE	50	48.8	2.4%	50	51.7	3.4%	
1,1-DICHLORO ETHENE	50	52.4	4.8%	50	50.7	1.4%	
CIS-1,2-DICHLORO ETHENE	50	51.3	2.6%	50	53,6	7.2%	
TRANS-1,2-DICHLORO ETHENE	50	51.7	3.4%	50	51.7	3.4%	
DICHLOROMETHANE	50	46.9	6.2%	50	47.9	4.2%	
TETRACHLORO ETHENE	50	50.9	1.8%	50	52.0	4.0%	
1,1,1,2-TETRACHLORO ETHANE	50	51.7	3.4%	50	49.1	1.8%	
1,1,2,2-TETRACHLORO ETHANE	50	44.3	11.4%	50	47.8	4.4%	
1,1,1-TRICHLORO ETHANE	50	51.8	3.6%	50	50.9	1.8%	
1,1,2-TRICHLORO ETHANE	50	47.0	6.0%	50	52.0	4.0%	
TRICHLORO ETHENE	50	50.3	0.6%	50	50.4	0.8%	
VINYL CHLORIDE	50	42.6	14.8%	50	44.1	11.8%	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	57.0	14.0%	50	58.1	16.2%	
BENZENE	50	51.5	3.0%	50	52.4	4.8%	
CHLOROBENZENE	50	48.4	3.2%	50	50.2	0.4%	
ETHYLBENZËNE	50	50.4	0.8%	50	50.8	1.6%	
TOLUENE	50	52.3	4.6%	50	51.9	3.8%	
m&p-XYLENES	100	108	8.0%	100	109	9.0%	
o-XYLENE	50	52.5	5.0%	50	52.4	4.8%	

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

## **H&P Mobile Geochemistry**

H&P Project #GF041905-L6

DATE: 04/20/05

## QAVQC CALIBRATION DATA

MIDDAY CALIBRATION VERIFICATION

SUPPLY SOURCE: SUPELCO LOT #LSS-971

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	CONTINUING STANDARD					
COMPOUND	MASS	RESULT	%DIFF			
CARBON TETRACHLORIDE	50	48.5	3.0%			
CHLOROETHANE	50	46.8	6.4%			
CHLOROFORM	50	50.0	0.0%			
1,1-DICHLORO ETHANE	50	50.5	1.0%			
1,2-DICHLORO ETHANE	50	51.9	3.8%			
1,1-DICHLORO ETHENE	50	50.3	0.6%			
CIS-1,2-DICHLORO ETHENE	50	50.7	1.4%			
TRANS-1,2-DICHLORO ETHENE	50	51.4	2.8%			
DICHLOROMETHANE	50	47.9	4.2%			
TETRACHLORO ETHENE	50	51.2	2.4%			
1,1,1,2-TETRACHLORO ETHANE	50	49.4	1.2%			
1,1,2,2-TETRACHLORO ETHANE	50	48.9	2.2%			
1,1,1-TRICHLORO ETHANE	50	49.1	1.8%			
1,1,2-TRICHLORO ETHANE	50	51.7	3.4%			
TRICHLORO ETHENE	50	49.7	0.6%			
VINYL CHLORIDE	50	43.6	12.8%			
TRICHLOROFLUOROMETHANE (FR11)	50	51.9	3.8%			
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	56.8	13.6%			
BENZENE	50	51.6	3.2%			
CHLOROBENZENE	50	49.4	1.2%			
ETHYLBENZENE	50	50.6	1.2%			
TOLUENE	50	51.3	2.6%			
m&p-XYLENES	100	106	6.0%			
o-XYLENE	50	53.0	6.0%			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

DATE: 04/21/05 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-971

H&P Project #GF041905-L6 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-972

LAR-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

LAB-6		PENING STANDA	CO G ECTIO	2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	49.8	0.4%	50	51.2	2.4%
CHLOROETHANE	50	49.0	2.0%	50	54.3	8.6%
CHLOROFORM	50	49.1	1.8%	50	52.3	4.6%
1,1-DICHLORO ETHANE	50	49.4	1.2%	50	51.8	3.6%
1,2-DICHLORO ETHANE	50	49.8	0.4%	50	55.6	11.2%
1,1-DICHLORO ETHENE	50	50.2	0.4%	50	53.3	6.6%
CIS-1,2-DICHLORO ETHENE	50	51.0	2.0%	50	54.0	8.0%
TRANS-1,2-DICHLORO ETHENE	50	50.1	0.2%	50	52.0	4.0%
DICHLOROMETHANE	50	47.3	5.4%	50	48.5	3.0%
TETRACHLORO ETHENE	50	48.1	3.8%	50	50.4	0.8%
1,1,1,2-TETRACHLORO ETHANE	50	48.9	2.2%	50	50.0	0.0%
1,1,2,2-TETRACHLORO ETHANE	50	44.8	10.4%	50	47.7	4.6%
1,1,1-TRICHLORO ETHANE	50	48.3	3.4%	50	50.8	1.6%
1,1,2-TRICHLORO ETHANE	50	47.9	4.2%	50	49.8	0.4%
TRICHLORO ETHENE	50	49.3	1.4%	50	50.9	1.8%
VINYL CHLORIDE	50	56.8	13.6%	50	61.5	23.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	57.9	15.8%	50	60.6	21.2%
BENZENE	50	49.3	1.4%	50	51.2	2.4%
CHLOROBENZENE	50	47.6	4.8%	50	49.3	1.4%
ETHYLBENZENE	50	48.5	3.0%	50	51.8	3.6%
TOLUENE	50	52.5	5.0%	50	53.1	6.2%
m&p-XYLENES	100	106	6.0%	100	109	9.0%
o-XYLENE	50	52.0	4.0%	50	53.9	7.8%

ANALYSES PERFORMED ON-SITE IN CA DOHS MÖBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

## **H&P Mobile Geochemistry**

### QA/QC CALIBRATION DATA

DATE: 04/21/05 MIDDAY CALIBRATION VERIFICATION
H&P Project #GF041905-L6 SUPPLY SOURCE: SUPELCO LOT #LSS-971

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

Labo		CONTINUING STANDARD	)
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	50.6	1.2%
CHLOROETHANE	50	55,6	11.2%
CHLOROFORM	50	52.1	4.2%
1,1-DICHLORO ETHANE	50	52,8	5.6%
1,2-DICHLORO ETHANE	50	55.8	11.6%
1,1-DICHLORO ETHENE	50	52.8	5.6%
CIS-1,2-DICHLORO ETHENE	50	54.0	8.0%
TRANS-1,2-DICHLORO ETHENE	50	51.5	3.0%
DICHLOROMETHANE	50	48.1	3.8%
TETRACHLORO ETHENE	50	49.8	0.4%
1,1,1,2-TETRACHLORO ETHANE	50	50.2	0.4%
1,1,2,2-TETRACHLORO ETHANE	50	48.1	3.8%
1,1,1-TRICHLORO ETHANE	50	51.2	2.4%
1,1,2-TRICHLORO ETHANE	50	51.8	3.6%
TRICHLORO ETHENE	50	50.4	0.8%
VINYL CHLORIDE	50	61.5	23.0%
TRICHLOROFLUOROMETHANE (FR11)	50	62,0	24.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	<u>6</u> 1.7	23.4%
BENZENE	50	51.4	2.8%
CHLOROBENZENE	50	50.1	0.2%
ETHYLBENZENE	50	51.0	2.0%
TOLUENE	50	54.1	8.2%
m&p-XYLENES	100	110	10.0%
o-XYLENE	50	54.4	8.8%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

DATE: 04/22/05 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-971

H&P Project #GF041905-L6 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-972

LAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	OF	OPENING STANDARD			2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF	
CARBON TETRACHLORIDE	50	57.5	15.0%	50	49.8	0.4%	
CHLOROETHANE	50	53.0	6.0%	50	47,9	4.2%	
CHLOROFORM	50	52.8	5.6%	50	50.6	1.2%	
1,1-DICHLORO ETHANE	50	51.2	2.4%	50	48.9	2.2%	
1,2-DICHLORO ETHANE	50	52.2	4.4%	50	54.1	8.2%	
1,1-DICHLORO ETHENE	50	52.2	4.4%	50	47.9	4.2%	
CIS-1,2-DICHLORO ETHENE	50	51.9	3.8%	50	51.2	2.4%	
TRANS-1,2-DICHLORO ETHENE	50	50.2	0.4%	50	46.8	6.4%	
DICHLOROMETHANE	50	44.3	11.4%	50	44.1	11.8%	
TETRACHLORO ETHENE	50	50.1	0.2%	50	50.2	0.4%	
1,1,1,2-TETRACHLORO ETHANE	50	52.9	5.8%	50	49.1	1.8%	
1,1,2,2-TETRACHLORO ETHANE	50	40.2	19.6%	50	42.1	15.8%	
1,1,1-TRICHLORO ETHANE	50	53,9	7.8%	50	48.8	2.4%	
1,1,2-TRICHLORO ETHANE	50	46.9	6.2%	50	49.7	0.6%	
TRICHLORO ETHENE	50	50.2	0.4%	50	47.3	5.4%	
VINYL CHLORIDE	50	59.8	19.6%	50	52.9	5.8%	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	60.8	21.6%	50	57.8	15.6%	
BENZENE	50	50.4	0.8%	50	47.4	5.2%	
CHLOROBENZENE	50	48.3	3.4%	50	47.8	4.4%	
ETHYLBENZENE	50	50.5	1.0%	50	49.6	0.8%	
TOLUENE	50	53.6	7.2%	50	50.3	0.6%	
m&p-XYLENES	100	108	8.0%	100	105	5.0%	
o-XYLENE	50	52.7	5.4%	50	53.8	7.6%	

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

## **H&P Mobile Geochemistry**

DATE: 04/22/05

H&P Project #GF041905-L6

### QA/QC CALIBRATION DATA

MIDDAY CALIBRATION VERIFICATION
SUPPLY SOURCE: SUPELCO LOT #LSS-971

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

		CONTINUING STANDARD					
COMPOUND	MASS	RESULT	%DIFF				
CARBON TETRACHLORIDE	50	53.2	6.4%				
CHLOROETHANE	50	56.2	12.4%				
CHLOROFORM	50	53.1	6.2%				
1,1-DICHLORO ETHANE	50	52.4	4.8%				
1,2-DICHLORO ETHANE	50	56.8	13.6%				
1,1-DICHLORO ETHENE	50	53.2	6.4%				
CIS-1,2-DICHLORO ETHENE	50	54.4	8.8%				
TRANS-1,2-DICHLORO ETHÉNE	50	51.4	2.8%				
DICHLOROMETHANE	50	46.7	6.6%				
TETRACHLORO ETHENE	50	50.1	0.2%				
1,1,1,2-TETRACHLORO ETHANE	50	47.9	4.2%				
1,1,2,2-TETRACHLORO ETHANE	50	44.4	11.2%				
1,1,1-TRICHLORO ETHANE	50	52.6	5.2%				
1,1,2-TRICHLORO ETHANE	50	47.0	6.0%				
TRICHLORO ETHENE	50	51.1	2.2%				
VINYL CHLORIDE	50	60.8	21.6%				
TRICHLOROFLUOROMETHANE (FR11)	50	59.5	19.0%				
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	59.7	19.4%				
BENZENE	50	51.3	2.6%				
CHLOROBENZENE	50	47.8	4.4%				
ETHYLBENZENE	50	49.3	1.4%				
TOLUENE	50	53.5	7.0%				
m&p-XYLENES	100	105	5.0%				
o-XYLENE	50	52.0	4.0%				

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE



DATE: 07/12/05 HP Labs Project #GF071205-L6 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-997

SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-998

LAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	OF	OPENING STANDARD			2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF	
CARBON TETRACHLORIDE	50	56.5	13.0%	50	56.6	13.2%	
CHLOROETHANE	50	54.2	8.4%	50	52.7	5.4%	
CHLOROFORM	50	53.7	7.4%	50	55,3	10.6%	
1,1-DICHLORO ETHANE	50	52.7	5.4%	50	52.1	4.2%	
1,2-DICHLORO ETHANE	50	57.3	14.6%	50	57.0	14.0%	
1,1-DICHLORO ETHENE	50	51.9	3.8%	50	49.0	2.0%	
CIS-1,2-DICHLORO ETHENE	50	50.4	0.8%	50	50.4	0.9%	
TRANS-1,2-DICHLORO ETHENE	50	49.6	0.8%	50	50.5	1.0%	
DICHLOROMETHANE	50	48.9	2.2%	50	47.1	5.8%	
TETRACHLORO ETHENE	50	51.9	3.8%	50	53.2	6.4%	
1,1,1,2-TETRACHLORO ETHANE	50	50.0	0.0%	50	51.2	2.4%	
1,1,2,2-TETRACHLORO ETHANE	50	44.6	10.8%	50	38.0	24.0%	
1,1,1-TRICHLORO ETHANE	50	57.4	14.8%	50	59.5	19.0%	
1,1,2-TRICHLORO ETHANE	50	48.6	2.8%	50	43.9	12.2%	
TRICHLORO ETHENE	50	50.0	0.0%	50	53.4	6.8%	
VINYL CHLORIDE	50	52.9	5.8%	50	51.2	2.4%	
TRICHLOROFLUOROMETHANE (FR11)	50	59.7	19.4%	50	59.4	18.8%	
DICHLORODIFLUOROMETHANE (FR12)	50	<b>5</b> 5.6	11.2%	50	53.3	6.6%	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	51.7	3.4%	50	52.7	5.4%	
BENZENE	50	47.5	5.0%	50	48.4	3.2%	
CHLOROBENZENE	50	48.7	2.6%	50	48.1	3.8%	
ETHYLBENZENË	50	45.7	8.6%	50	47.5	5.0%	
TOLUENE	50	45.5	9.0%	50	45.7	8.6%	
m&p-XYLENES	100	92.8	7.2%	100	93	7.2%	
o-XYLENE	50	48.2	3.6%	50	46.8	6.4%	

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE



DATE: 07/12/05 HP Labs Project #GF071205-L6 MIDDAY CALIBRATION VERIFICATION

SUPPLY SOURCE: SUPELCO LOT #LSS-997

Lab 6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	CONTINUING STANDARD					
COMPOUND	MASS	RESULT	%DIFF			
CARBON TETRACHLORIDE	50	56.8	13.6%			
CHLOROETHANE	50	56.2	12.4%			
CHLOROFORM	50	55.2	10.4%			
1,1-DICHLORO ETHANE	50	53.2	6.4%			
1,2-DICHLORO ETHANE	50	58.3	16.6%			
1,1-DICHLORO ETHENE	50	50.2	0.4%			
CIS-1,2-DICHLORO ETHENE	50	52.0	4.0%			
TRANS-1,2-DICHLORO ETHENE	50	50.0	0.0%			
DICHLOROMETHANE	50	48.1	3.8%			
TETRACHLORO ETHENE	50	53.3	6.6%			
1,1,1,2-TETRACHLORO ETHANE	50	50.2	0.4%			
1,1,2,2-TETRACHLORO ETHANE	50	42.0	16.0%			
1,1,1-TRICHLORO ETHANE	50	57.7	15.4%			
1,1,2-TRICHLORO ETHANE	50	47.7	4.6%			
TRICHLORO ETHENE	50	52.0	4.0%			
VINYL CHLORIDE	50	56.0	12.0%			
TRICHLOROFLUOROMETHANE (FR11)	50	61.2	22.4%			
DICHLORODIFLUOROMETHANE (FR12)	50	58.9	17.8%			
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	53.3	6.6%			
BENZENE	50	48.9	2.2%			
CHLOROBENZENE	50	49.3	1.4%			
ETHYLBENZEN <b>E</b>	50	48.2	3.6%			
TOLUENE	50	48.5	3.0%			
m&p-XYLENES	100	92	8.0%			
o-XYLENE	50	48.3	3.4%			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)



## SOIL GAS INITIAL LCS STANDARD REPORT (CALIBRATION VERIFICATION)

LAB: Lab 6

SUPPLY SOURCE: SUPELCO LOT #LSS-998

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	CAL DATE	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	6/29/2005	50	45.4	9.2%
CHLOROETHANE	6/29/2005	50	50.8	-1.6%
CHLOROFORM	6/29/2005	50	45.2	9.6%
1,1-DICHLORO ETHANE	6/29/2005	50	48.0	4.0%
1,2-DICHLORO ETHANE	6/29/2005	50	42.5	15.0%
1,1-DICHLORO ETHENE	6/29/2005	50	52.2	-4.4%
CIS-1,2-DICHLORO ETHENE	6/29/2005	50	49.5	1.0%
TRANS-1,2-DICHLORO ETHENE	6/29/2005	50	50.0	0.0%
DICHLOROMETHANE	6/29/2005	50	48.1	3.8%
TETRACHLORO ETHENE	6/29/2005	50	54.5	-9.0%
1,1,1,2-TETRACHLORO ETHANE	6/29/2005	50	48.0	4.0%
1,1,2,2-TETRACHLORO ETHANE	6/29/2005	50	46.6	6.8%
1,1,1-TRICHLORO ETHANE	6/29/2005	50	46.9	6.2%
1,1,2-TRICHLORO ETHANE	6/29/2005	50	46.0	8.0%
TRICHLORO ETHENE	6/29/2005	50	48.5	3.0%
VINYL CHLORIDE	6/29/2005	50	50.7	-1.4%
TRICHLOROFLUOROMETHANE (FR11)	6/29/2005	50	45.2	9.6%
DICHLORODIFLUOROMETHANE (FR12)	6/29/2005	50	47.6	4.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	6/29/2005	50	48.1	3.8%
BENZENE	6/29/2005	50	49.4	1.2%
ETHYLBENZENE	6/29/2005	50	52.3	-4.6%
TOLUENE	6/29/2005	50	48.6	2.8%
m&p-XYLENES	6/29/2005	100	102	-2.0%
o-XYLENE	6/29/2005	50	52.1	-4.2%

ANALYSES PERFORMED IN CA DOHS MOBILE LABORATORY #2579

DATE: 10/17/05 H&P Project #GF101705-L6 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ECS LOT #LSS-1024 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-1023

LAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	OF	OPENING STANDARD			2ND SOURCE	
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	56.7	13.4%	50	57.0	14.0%
CHLOROETHANE	50	51.5	3.0%	50	49.3	1.4%
CHLOROFORM	50	47.6	4.8%	50	47.9	4.2%
1,1-DICHLORO ETHANE	50	51.8	3.6%	50	50.1	0.2%
1,2-DICHLORO ETHANE	50	45.8	8.4%	50	48.2	3.6%
1,1-DICHLORO ETHENE	50	50.7	1.4%	50	50.2	0.4%
CIS-1,2-DICHLORO ETHENE	50	50.6	1.2%	50	49.5	1.0%
TRANS-1,2-DICHLORO ETHENE	50	52.5	5.0%	50	50.5	1.0%
DICHLOROMETHANE	50	51.8	3.6%	50	52.9	5.8%
TETRACHLORO ETHENE	50	50.3	0.6%	50	50.7	1.4%
1,1,1,2-TETRACHLORO ETHANE	50	57.3	14.6%	50	56.2	12.4%
1,1,2,2-TETRACHLORO ETHANE	50	47.1	5.8%	50	48.6	2.8%
1,1,1-TRICHLORO ETHANE	50	52.0	4.0%	50	49.3	1.4%
1,1,2-TRICHLORO ETHANE	50	46.1	7.8%	50	50.5	1.0%
TRICHLORO ETHENE	50	51.2	2.4%	50	49.5	1.0%
VINYL CHLORIDE	50	52.3	4.6%	50	46.4	7.2%
TRICHLOROFLUOROMETHANE (FR11)	50	46.7	6.6%	50	43.4	13.2%
DICHLORODIFLUOROMETHANE (FR12)	50	41.9	16.2%	50	39.7	20.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	52.6	5.2%	50	50.3	0.6%
BENZENE	50	53.7	7.4%	50	52.6	5.2%
CHLOROBENZENE	50	50,5	1.0%	50	50.6	1.2%
ETHYLBENZENE	50	51.8	3.6%	50	50.7	1.4%
TOLUENE	50	50.5	1.0%	50	50.2	0.4%
m&p-XYLENES	100	109	9.0%	100	106	6.0%
o-XYLENE	50	51.7	3.4%	50	52.6	5.2%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

DATE: 10/17/05 MIDDAY CALIBRATION VERIFICATION
H&P Project #GF101705-L6 SUPPLY SOURCE: ECS LOT #LSS-1024

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	CONTINUING STANDARD					
	MASS	RESULT	%DIFF			
CARBON TETRACHLORIDE	50	55.3	10.6%			
CHLOROETHANE	50	49.1	1.8%			
CHLOROFORM	50	48.4	3.2%			
1,1-DICHLORO ETHANE	50	51.8	3.6%			
1,2-DICHLORO ETHANÉ	50	50.3	0.6%			
1,1-DICHLORO ETHENE	50	49.6	0.8%			
CIS-1,2-DICHLORO ETHENE	50	51,7	3.4%			
TRANS-1,2-DICHLORO ETHENE	50	51.1	2.2%			
DICHLOROMETHANE	50	53.2	6.4%			
TETRACHLORO ETHENE	50	52.2	4.5%			
1,1,1,2-TETRACHLORO ETHANE	50	57.3	14.6%			
1,1,2,2-TETRACHLORO ETHANE	50	49.3	1.4%			
1,1,1-TRICHLORO ETHANE	50	50.6	1.2%			
1,1,2-TRICHLORO ETHANE	50	52.8	5.6%			
TRICHLORO ETHENE	50	51.4	2.8%			
VINYL CHLORIDE	50	47.3	5.4%			
TRICHLOROFLUOROMETHANE (FR11)	50	47.3	5.4%			
DICHLORODIFLUOROMETHANE (FR12)	50	41.3	17.4%			
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	51.4	2.8%			
BENZENE	50	53.4	6.8%			
CHLOROBENZENE	50	51.9	3.8%			
ETHYLBENZENE	50	52.7	5.4%			
TOLUENE	50	51.0	2.0%			
m&p-XYLENES	100	111	11.0%			
o-XYLENE	50	53.3	6.6%			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #2579)

## SOIL GAS INITIAL LCS STANDARD REPORT (CALIBRATION VERIFICATION)

LAB: Lab 6

SUPPLY SOURCE: ECS LOT #LSS-998

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	1			
COMPOUND	CAL DATE	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	8/29/2005	50	54.0	-8.0%
CHLOROETHANE	8/29/2005	50	51.8	-3.6%
CHLOROFORM	8/29/2005	50	48.3	3.4%
1,1-DICHLORO ETHANE	8/29/2005	50	51.5	-3.0%
1,2-DICHLORO ETHANE	8/29/2005	50	50.4	-0.8%
1,1-DICHLORO ETHENE	8/29/2005	50	54.2	-8.4%
CIS-1,2-DICHLORO ETHENE	8/29/2005	50	52.6	-5.2%
TRANS-1,2-DICHLORO ETHENE	8/29/2005	50	53.7	-7.4%
DICHLOROMETHANE	8/29/2005	50	52.8	-5.6%
TETRACHLORO ETHENE	8/29/2005	50	52.8	-5.6%
1,1,1,2-TETRACHLORO ETHANE	8/29/2005	50	52.0	-4.0%
1,1,2,2-TETRACHLORO ETHANE	8/29/2005	50	56.4	-12.8%
1,1,1-TRICHLORO ETHANE	8/29/2005	50	52.3	-4.6%
1,1,2-TRICHLORO ETHANE	8/29/2005	50	52.6	-5.2%
TRICHLORO ETHENE	8/29/2005	50	51.3	-2.6%
VINYL CHLORIDE	8/29/2005	50	50.4	-0.8%
TRICHLOROFLUOROMETHANE (FR11)	8/29/2005	50	50.0	0.0%
DICHLORODIFLUOROMETHANE (FR12)	8/29/2005	50	50.4	-0.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	8/29/2005	50	56.9	-13.8%
BENZENE	8/29/2005	50	53,3	-6.6%
ETHYLBENZENE	8/29/2005	50	55.7	-11.4%
TOLUENE	8/29/2005	50	51.9	-3.8%
m&p-XYLENES	8/29/2005	100	116	-16.0%
o-XYLENE	8/29/2005	50	56.1	-12.2%

ANALYSES PERFORMED IN CA DOHS MOBILE LABORATORY #2579

DATE: 10/18/05 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ECS LOT #LSS-1024

H&P Project #GF101705-L6 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-1023

LAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

LAB-0		OPENING STANDARD			2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF	
CARBON TETRACHLORIDE	50	55.4	10.8%	50	52.4	4.8%	
CHLOROETHANE	50	52.0	4.0%	50	48.7	2.6%	
CHLOROFORM	50	45.6	8.8%	50	48.2	3.6%	
1,1-DICHLORO ETHANE	50	51.4	2.8%	50	50.3	0.6%	
1,2-DICHLORO ETHANE	50	45.1	9.8%	50	48.6	2.8%	
1,1-DICHLORO ETHENE	50	48.7	2.6%	50	46.6	6.8%	
CIS-1,2-DICHLORO ETHENE	50	50.9	1.8%	50	51.3	2.6%	
TRANS-1,2-DICHLORO ETHENE	50	51,1	2.2%	50	50.5	1.0%	
DICHLOROMETHANE	50	50.6	1.2%	50	53.1	6.2%	
TETRACHLORO ETHENE	50	51.2	2.4%	50	50.1	0.2%	
1,1,1,2-TETRACHLORO ETHANE	50	55.6	11.2%	50	57.0	14.0%	
1,1,2,2-TETRACHLORO ETHANE	50	48.1	3.8%	50	50.0	0.0%	
1,1,1-TRICHLORO ETHANE	50	50.9	1.8%	50	49.8	0.4%	
1,1,2-TRICHLORO ETHANE	50	45.4	9.2%	50	49.3	1.4%	
TRICHLORO ETHENE	50	49.1	1.8%	50	48.8	2.4%	
VINYL CHLORIDE	50	54.2	8.4%	50	44.1	11.8%	
TRICHLOROFLUOROMETHANE (FR11)	50	46.5	7.0%	50	46.3	7.4%	
DICHLORODIFLUOROMETHANE (FR12)	50	41.2	17.6%	50	39.1	21.8%	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	53.6	7.2%	50	49.7	0.6%	
BENZENE	50	51.2	2.4%	50	51.6	3.2%	
CHLOROBENZENE	50	50.7	1.4%	50	52.7	5.4%	
ETHYLBENZENE	50	51.3	2.6%	50	51. <del>9</del>	3.8%	
TOLUENE	50	49.1	1.8%	50	51.5	3.0%	
m&p-XYLENES	100	107	7.0%	100	108	8.0%	
o-XYLENE	50_	51.3	2.6%	50	52.2	4.4%	

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

DATE: 10/18/05 MIDDAY CALIBRATION VERIFICATION
H&P Project #GF101705-L6 SUPPLY SOURCE: ECS LOT #LSS-1024

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

		CONTINUING STANDARD				
COMPOUND	MASS	RESULT	%DIFF			
CARBON TETRACHLORIDE	50	57.6	15.2%			
CHLOROETHANE	50	48.9	2.2%			
CHLOROFORM	50	50.1	0.2%			
1,1-DICHLORO ETHANE	50	53.6	7.2%			
1,2-DICHLORO ETHANE	50	51.7	3.4%			
1,1-DICHLORO ETHENE	50	50.2	0.4%			
CIS-1,2-DICHLORO ETHENE	50	54.0	8.0%			
TRANS-1,2-DICHLORO ETHENE	50	52.8	5.6%			
DICHLOROMETHANE	50	54.9	9.8%			
TETRACHLORO ETHENE	50	51.8	3.6%			
1,1,1,2-TETRACHLORO ETHANE	50	59.4	18.8%			
1,1,2,2-TETRACHLORO ETHANE	50	53.0	6.0%			
1,1,1-TRICHLORO ETHANE	50	51.8	3.6%			
1,1,2-TRICHLORO ETHANE	50	54.9	9.8%			
TRICHLORO ETHENE	50	51.8	3.6%			
VINYL CHLORIDE	50	49.5	1.0%			
TRICHLOROFLUOROMETHANE (FR11)	50	48.0	4.0%			
DICHLORODIFLUOROMETHANE (FR12)	50	42.0	16.0%			
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	51.6	3.2%			
BENZENE	50	55.2	10.4%			
CHLOROBENZENE	50	53.6	7.2%			
ETHYLBENZENE	50	54.8	9.6%			
TOLUENE	50	53.0	6.0%			
m&p-XYLENES	100	109	9.0%			
o-XYLENE	50_	53.5	7.0%			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #2579)

DATE: 10/19/05 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ECS LOT #LSS-1024

H&P Project #GF101705-L6 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-1023

LAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	OPENING STANDARD		1			
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	54.9	9.8%	50	57.5	15.0%
CHLOROETHANE	50	52.0	4.0%	50	48.4	3.2%
CHLOROFORM	50	46.5	7.0%	50	49.1	1.8%
1,1-DICHLORO ETHANE	50	51.3	2.6%	50	52.5	5.0%
1,2-DICHLORO ETHANE	50	44.8	10.4%	50	47.7	4.6%
1,1-DICHLORO ETHENE	50	50.2	0.4%	50	48.8	2.4%
CIS-1,2-DICHLORO ETHENE	50	48.9	2.2%	50	50.6	1.2%
TRANS-1,2-DICHLORO ETHENE	50	50.7	1.4%	50	50.6	1.2%
DICHLOROMETHANE	50	49.9	0.2%	50	51.7	3.4%
TETRACHLORO ETHENE	50	50.1	0.2%	50	51.4	2.8%
1,1,1,2-TETRACHLORO ETHANE	50	<b>56</b> .1	12.2%	50	57.7	15.4%
1,1,2,2-TETRACHLORO ETHANE	50	43.5	13.0%	50	46.7	6.6%
1,1,1-TRICHLORO ETHANE	50	50.2	0.4%	50	51.0	2.0%
1,1,2-TRICHLORO ETHANE	50	45.7	8.6%	50	49.3	1.4%
TRICHLORO ETHENE	50	47.9	4.2%	50	49.9	0.2%
VINYL CHLORIDE	50	53.1	6.2%	50	49.6	0.8%
TRICHLOROFLUOROMETHANE (FR11)	50	46.7	6.6%	50	46.5	7.0%
DICHLORODIFLUOROMETHANE (FR12)	50	42.1	15.8%	50	39.6	20.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	51.9	3.8%	50	53.5	7.0%
BENZENE	50	52.2	4.4%	50	52.8	5.6%
CHLOROBENZENE	50	49.8	0.4%	50	51.1	2.2%
ETHYLBENZENE	50	50,1	0.2%	50	51.4	2.8%
TOLUENE	50	49.1	1.8%	50	49.4	1.2%
m&p-XYLENES	100	103	3.0%	100	108	8.0%
o-XYLENE	50	48.9	2.2%	50	51.5	3.0%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

DATE: 10/19/05 MIDDAY CALIBRATION VERIFICATION
H&P Project #GF101705-L6 SUPPLY SOURCE: ECS LOT #LSS-1024

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

		)	
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	53.0	6.0%
CHLOROETHANE	50	47.4	5.2%
CHLOROFORM	50	47.9	4.2%
1,1-DICHLORO ETHANE	50	49.6	0.8%
1,2-DICHLORO ETHANE	50	49.0	2.0%
1,1-DICHLORO ETHENE	50	46.6	6.8%
CIS-1,2-DICHLORO ETHENE	50	49.6	0.8%
TRANS-1,2-DICHLORO ETHENE	50	48.6	2.8%
DICHLOROMETHANE	50	52.2	4.4%
TETRACHLORO ETHENE	50	48.9	2.2%
1,1,1,2-TETRACHLORO ETHANE	50	56.2	12.4%
1,1,2,2-TETRACHLORO ETHANE	50	49.3	1.4%
1,1,1-TRICHLORO ETHANE	50	47.5	5.0%
1,1,2-TRICHLORO ETHANE	50	51.8	3.6%
TRICHLORO ETHENE	50	47.4	5.2%
VINYL CHLORIDE	50	44.7	10.6%
TRICHLOROFLUOROMETHANE (FR11)	50	45.1	9.8%
DICHLORODIFLUOROMETHANE (FR12)	50	<b>37</b> .7	24.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	47.4	5.2%
BENZENE	50	51.7	3.4%
CHLOROBENZENE	50	51.5	3.0%
ETHYLBENZENE	50	50.1	0.2%
TOLUENE	50	48.5	3.0%
m&p-XYLENES	100	106	6.0%
o-XYLENE	50	50.5	1.0%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #2579)

ANALYSES PERFORMED BY: MARK BURKE

DATE: 10/20/05 H&P Project #GF101705-L6 LAB-6 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ECS LOT #LSS-1024 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-1023

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	OF	OPENING STANDARD			2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF	
CARBON TETRACHLORIDE	50	57.1	14.2%	50	54.8	9.6%	
CHLOROETHANE	50	51.1	2.2%	50	51.6	3.2%	
CHLOROFORM	50	46.6	6.8%	50	49.3	1.4%	
1,1-DICHLORO ETHANE	50	51.6	3.2%	50	51.2	2.4%	
1,2-DICHLORO ETHANE	50	45.5	9.0%	50	49.8	0.4%	
1,1-DICHLORO ETHENE	50	49.8	0.4%	50	47.9	4.2%	
CIS-1,2-DICHLORO ETHENE	50	49.6	0.8%	50	51.1	2.2%	
TRANS-1,2-DICHLORO ETHENE	50	51.7	3.4%	50	51.2	2.4%	
DICHLOROMETHANE	50	51.0	2.0%	50	54.3	8.6%	
TETRACHLORO ETHENE	50	51.2	2.4%	50	49.3	1.4%	
1,1,1,2-TETRACHLORO ETHANE	50	57.4	14.8%	50	56.0	12.0%	
1,1,2,2-TETRACHLORO ETHANE	50	43.2	13.6%	50	51.0	2.0%	
1,1,1-TRICHLORO ETHANE	50	51.1	2.2%	50	49.4	1.2%	
1,1,2-TRICHLORO ETHANE	50	45.4	9.2%	50	52.1	4.2%	
TRICHLORO ETHENE	50	48.6	2.8%	50	49.5	1.0%	
VINYL CHLORIDE	50	51.7	3.4%	50	50.2	0.4%	
TRICHLOROFLUOROMETHANE (FR11)	50	49.3	1.4%	50	48.2	3.6%	
DICHLORODIFLUOROMETHANE (FR12)	50	42.4	15.2%	50	40.2	19.6%	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	54.9	9.8%	50	52.6	5.2%	
BENZENE	50	51.9	3.8%	50	52.5	5.0%	
CHLOROBENZENE	50	50.2	0.4%	50	50.7	1.4%	
ETHYLBENZENE	50	51.9	3.8%	50	49.4	1.2%	
TOLUENE	50	48.9	2.2%	50	52.4	4.8%	
m&p-XYLENES	100	108	8.0%	100	104	4.0%	
o-XYLENE	50	51.3	2.6%	50	50.2	0.4%	

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE

DATE: 10/20/05 MIDDAY CALIBRATION VERIFICATION
H&P Project #GF101705-L6 SUPPLY SOURCE: ECS LOT #LSS-1024

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND		)	
	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	54.2	8.4%
CHLOROETHANE	50	49.3	1.4%
CHLOROFORM	50	47.8	4.4%
1,1-DICHLORO ETHANE	50	48.8	2.4%
1,2-DICHLORO ETHANE	50	48.5	3.0%
1,1-DICHLORO ETHENE	50	46.7	6.6%
CIS-1,2-DICHLORO ETHENE	50	50.1	0.2%
TRANS-1,2-DICHLORO ETHENE	50	48.5	3.0%
DICHLOROMETHANE	50	50.3	0.6%
TETRACHLORO ETHENE	50	49.5	1.0%
1,1,1,2-TETRACHLORO ETHANE	50	55.9	11.8%
1,1,2,2-TETRACHLORO ETHANE	50	47.2	5.6%
1,1,1-TRICHLORO ETHANE	50	49.1	1.8%
1,1,2-TRICHLORO ETHANE	50	49.5	1.0%
TRICHLORO ETHENE	50	48.4	3.2%
VINYL CHLORIDE	50	46.6	6.8%
TRICHLOROFLUOROMETHANE (FR11)	50	46.4	7.2%
DICHLORODIFLUOROMETHANE (FR12)	50	37.5	25.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	48.4	3.2%
BENZENE	50	50.4	0.8%
CHLOROBENZENE	50	50.7	1.4%
ETHYLBENZENE	50	50.8	1.6%
TOLUENE	50	47.9	4.2%
m&p-XYLENES	100	105	5.0%
o-XYLENE	50	51.4	2.8%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #2579)

DATE: 10/21/05 H&P Project #GF101705-L6 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ECS LOT #LSS-1024 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-1023

LAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	OPENING STANDARD					
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	56.9	13.8%	50	54.9	9.8%
CHLOROETHANE	50	50.1	0.2%	50	46.3	7.4%
CHLOROFORM	50	48.5	3.0%	50	49.5	1.0%
1,1-DICHLORO ETHANE	50	52.3	4.6%	50	50.4	0.8%
1,2-DICHLORO ETHANE	50	50.0	0.0%	50	49,0	2.0%
1,1-DICHLORO ETHENE	50	49.6	0.8%	50	46.2	7.6%
CIS-1,2-DICHLORO ETHENE	50	50.3	0.6%	50	51.3	2.6%
TRANS-1,2-DICHLORO ETHENE	50	51.2	2.4%	50	49.7	0.6%
DICHLOROMETHANE	50	52.7	5.4%	50	51.7	3.4%
TETRACHLORO ETHENE	50	49.4	1.2%	50	47.8	4.4%
1,1,1,2-TETRACHLORO ETHANE	50	55.2	10.4%	50	57. <b>7</b>	15.4%
1,1,2,2-TETRACHLORO ETHANE	50	52.9	5.8%	50	44.6	10.8%
1,1,1-TRICHLORO ETHANE	50	51.1	2.2%	50	50.9	1.8%
1,1,2-TRICHLORO ETHANE	50	49.6	0.8%	50	50.0	0.0%
TRICHLORO ETHENE	50	48.1	3.8%	50	48.6	2.8%
VINYL CHLORIDE	50	48.6	2.8%	50	45.7	8.6%
TRICHLOROFLUOROMETHANE (FR11)	50	47.6	4.8%	50	47.3	5.4%
DICHLORODIFLUOROMETHANE (FR12)	50	42.3	15.4%	50	37.9	24.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	_ 50	50,9	1.8%	50	49.6	0.8%
BENZENE	50	52.1	4.2%	50	51.8	3.6%
CHLOROBENZENE	50	51,4	2.8%	50	50.6	1.2%
ETHYLBENZENE	50	51.2	2.4%	50	50.3	0.6%
TOLUENE	50	49.0	2.0%	50	50.7	1.4%
m&p-XYLENES	100	105	5.0%	100	105	5.0%
o-XYLENE	50	50.4	0.8%	50	50.0	0,0%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

DATE: 10/21/05 MIDDAY CALIBRATION VERIFICATION
H&P Project #GF101705-L6 SUPPLY SOURCE: ECS LOT #LSS-1024

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

		)	
COMPOUND	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	55.2	10.4%
CHLOROETHANE	50	47.9	4.2%
CHLOROFORM	50	48.2	3.6%
1,1-DICHLORO ETHANE	50	50.1	0.2%
1,2-DICHLORO ETHANE	50	50.8	1.6%
1,1-DICHLORO ETHENE	50	47.1	5.8%
CIS-1,2-DICHLORO ETHENE	50	50.4	0.8%
TRANS-1,2-DICHLORO ETHENE	50	50.0	0.0%
DICHLOROMETHANE	50	52.8	5.6%
TETRACHLORO ETHENE	50	49.4	1.2%
1,1,1,2-TETRACHLORO ETHANE	50	56.6	13.2%
1,1,2,2-TETRACHLORO ETHANE	50	51.1	2.2%
1,1,1-TRICHLORO ETHANE	50	49.1	1.8%
1,1,2-TRICHLORO ETHANE	50	52.9	5.8%
TRICHLORO ETHENE	50	48.2	3.6%
VINYL CHLORIDE	50	44.9	10.2%
TRICHLOROFLUOROMETHANE (FR11)	50	48.0	4.0%
DICHLORODIFLUOROMETHANE (FR12)	50	39.9	20.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	49.8	0.4%
BENZENE	50	51.3	2.6%
CHLOROBENZENE	50	51.7	3.4%
ETHYLBENZENE	50	50.4	0.8%
TOLUENE	50	50.3	0.6%
m&p-XYLENES	100	107	7.0%
o-XYLENE	50	51.6	3.2%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #2579)

DATE: 10/24/05 H&P Project #GF101705-L6 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ECS LOT #LSS-1028 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-1023

LAB-6

INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

LAB-6	OF	OPENING STANDARD 2N			2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF	
CARBON TETRACHLORIDE	50	56.7	13.4%	50	56.8	13.6%	
CHLOROETHANE	50	51.9	3.8%	50	48.2	3.6%	
CHLOROFORM	50	49.8	0.4%	50	49.4	1.2%	
1,1-DICHLORO ETHANE	50	52.9	5.8%	50	51.1	2.2%	
1,2-DICHLORO ETHANE	50	52.9	5.8%	50	51.2	2.4%	
1,1-DICHLORO ETHENE	50	51.0	2.0%	50	47.5	5.0%	
CIS-1,2-DICHLORO ETHENE	50	51.2	2.4%	50	51.1	2.2%	
TRANS-1,2-DICHLORO ETHENE	50	53.1	6.2%	50	49.2	1.6%	
DICHLOROMETHANE	50	52.5	5.0%	50	50.9	1.8%	
TETRACHLORO ETHENE	50	50.1	0.2%	50	52.1	4.2%	
1,1,1,2-TETRACHLORO ETHANE	50	57.4	14.8%	50	59.8	19.6%	
1,1,2,2-TETRACHLORO ETHANE	50	50.5	1.0%	50	53.0	6.0%	
1,1,1-TRICHLORO ETHANE	50	53.2	6.4%	50	50.9	1.8%	
1,1,2-TRICHLORO ETHANE	50	52.3	4.6%	50	51.6	3.2%	
TRICHLORO ETHENE	50	48.4	3.2%	50	50.4	0.8%	
VINYL CHLORIDE	50	50.6	1.2%	50	47.6	4.8%	
TRICHLOROFLUOROMETHANE (FR11)	50	50.6	1.2%	50	50.8	1.6%	
DICHLORODIFLUOROMETHANE (FR12)	50	42.3	15.4%	50	40.4	19.2%	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	55.3	10.6%	50	51.0	2.0%	
BENZENE	50	51.0	2.0%	50	53.6	7.2%	
CHLOROBENZENE	50	51.2	2.4%	50	52.3	4.6%	
ETHYLBENZENE	50	51.3	2.6%	50	51.2	2.4%	
TOLUENE	50	50.4	0.8%	50	51.4	2.8%	
m&p-XYLENES	100	106	6.0%	100	108	8.0%	
o-XYLENE	50	52.1	4.2%	50	52.8	_5.6%_	

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

DATE: 10/24/05 MIDDAY CALIBRATION VERIFICATION
H&P Project #GF101705-L6 SUPPLY SOURCE: ECS LOT #LSS-1028

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	CONTINUING STANDARD					
COMPOUND	MASS	RESULT	%DIFF			
CARBON TETRACHLORIDE	50	58.0	16.0%			
CHLOROETHANE	50	47.7	4.6%			
CHLOROFORM	50	47.7	4.6%			
1,1-DICHLORO ETHANE	` 50	49.9	0.2%			
1,2-DICHLORO ETHANE	50	50.5	1.0%			
1,1-DICHLORO ETHENE	50	47.5	5.0%			
CIS-1,2-DICHLORO ETHENE	50	50.5	1.0%			
TRANS-1,2-DICHLORO ETHENE	50	49.8	0.4%			
DICHLOROMETHANE	50	51.3	2.6%			
TETRACHLORO ETHENE	50	52.8	5.6%			
1,1,1,2-TETRACHLORO ETHANE	50	57.6	15.2%			
1,1,2,2-TETRACHLORO ETHANE	50	48.6	2.8%			
1,1,1-TRICHLORO ETHANE	50	50.6	1.2%			
1,1,2-TRICHLORO ETHANE	50	50.5	1.0%			
TRICHLORO ETHENE	50	48.0	4.0%			
VINYL CHLORIDE	50	47.9	4.2%			
TRICHLOROFLUOROMETHANE (FR11)	50	49.6	0.8%			
DICHLORODIFLUOROMETHANE (FR12)	50	40.7	18.6%			
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	51.2	2.4%			
BENZENE	50	50.8	1,6%			
CHLOROBENZENE	50	50.6	1.2%			
ETHYLBENZENE	50	51.6	3.2%			
TOLUENE	50	48.0	4.0%			
m&p-XYLENES	100	108	8.0%			
o-XYLENE	50	52.2	4.4%			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #2579)

DATE: 10/25/05 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ECS LOT #LSS-1028

H&P Project #GF101705-L6 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-1023

LAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	OF	OPENING STANDARD			2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF	
CARBON TETRACHLORIDE	50	56.5	13.0%	50	55.1	10.2%	
CHLOROETHANE	50	51.6	3.2%	50	47.9	4.2%	
CHLOROFORM	50	47.7	4.6%	50	48.1	3.8%	
1,1-DICHLORO ETHANE	50	50.8	1.6%	50	49.8	0.4%	
1,2-DICHLORO ETHANE	50	49.0	2.0%	50	50.1	0.2%	
1,1-DICHLORO ETHENE	50	48.5	3.0%	50	47.1	5.8%	
CIS-1,2-DICHLORO ETHENE	50	49.9	0.2%	50	49.9	0.2%	
TRANS-1,2-DICHLORO ETHENE	50	50.1	0.2%	50	49.6	0.8%	
DICHLOROMETHANE	50	51.6	3.2%	50	52.4	4.8%	
TETRACHLORO ETHENE	50	50.0	0.0%	50	50.8	1.6%	
1,1,1,2-TETRACHLORO ETHANE	50	57.1	14.2%	50	56.0	12.0%	
1,1,2,2-TETRACHLORO ETHANE	50	47.1	5.8%	50	47.4	5.2%	
1,1,1-TRICHLORO ETHANE	50	50.7	1.4%	50	48.2	3.6%	
1,1,2-TRICHLORO ETHANE	50	47.3	5.4%	50	47.9	4.2%	
TRICHLORO ETHENE	50	48.3	3.4%	50	47.9	4.2%	
VINYL CHLORIDE	50	50.3	0.6%	50	44.5	11.0%	
TRICHLOROFLUOROMETHANE (FR11)	50	50.8	1.6%	50	48.6	2.8%	
DICHLORODIFLUOROMETHANE (FR12)	50	41.8	16.4%	50	38.5	23.0%	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	54,3	8.6%	50	51.2	2.4%	
BENZENE	50	50,6	1.2%	50	51.0	2.0%	
CHLOROBENZENE	50	49.9	0.2%	50	50.7	1.4%	
ETHYLBENZENE	50	50.2	0.4%	50	51.0	2.0%	
TOLUENE	50	48.3	3.4%	50	49.8	0.4%	
m&p-XYLENES	100	104	4.0%	100	106	6.0%	
o-XYLENE	50	50.5	1.0%	50	51.1	2.2%	

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

DATE: 10/25/05 MIDDAY CALIBRATION VERIFICATION
H&P Project #GF101705-L6 SUPPLY SOURCE: ECS LOT #LSS-1028

Lab 6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	CONTINUING STANDARD					
	MASS	RESULT	%DIFF			
CARBON TETRACHLORIDE	50	56.4	12.8%			
CHLOROETHANE	50	51.7	3.4%			
CHLOROFORM	50	52.3	4.6%			
1,1-DICHLORO ETHANE	50	53.7	7.4%			
1,2-DICHLORO ETHANE	50	55.7	11.4%			
1,1-DICHLORO ETHENE	50	51.1	2.2%			
CIS-1,2-DICHLORO ETHENE	50	53.5	7.0%			
TRANS-1,2-DICHLORO ETHENE	50	51.7	3.4%			
DICHLOROMETHANE	50	54.9	9.8%			
TETRACHLORO ETHENE	50	53.6	7.2%			
1,1,1,2-TETRACHLORO ETHANE	50	59.5	19.0%			
1,1,2,2-TETRACHLORO ETHANE	50	50.8	1.6%			
1,1,1-TRICHLORO ETHANE	50	54.0	8.0%			
1,1,2-TRICHLORO ETHANE	50	52.2	4.4%			
TRICHLORO ETHENE	50	52.3	4.6%			
VINYL CHLORIDE	50	52.4	4.8%			
TRICHLOROFLUOROMETHANE (FR11)	50	55.0	10.0%			
DICHLORODIFLUOROMETHANE (FR12)	50	43.0	14.0%			
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	57.9	15.8%			
BENZENE	50	55.1	10.2%			
CHLOROBENZENE	50	52.9	5.8%			
ETHYLBENZENE	50	52.7	5.4%			
TOLUENE	50	54.8	9.6%			
m&p-XYLENES	100	111	11.0%			
o-XYLENE	50	53,5	7.0%			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #2579)

DATE: 10/26/05 H&P Project #GF101705-L6 SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ECS LOT #LSS-1028 SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-1023

LAB-6 INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

	OF	OPENING STANDARD		2ND SOURCE		
COMPOUND	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	56.8	13.6%	50	55.1	10.2%
CHLOROETHANE	50	53.0	6.0%	50	51.9	3.8%
CHLOROFORM	50	50.3	0.6%	50	50.3	0.6%
1,1-DICHLORO ETHANE	50	51.7	3.4%	50	52.2	4.4%
1,2-DICHLORO ETHANE	50	51.7	3.4%	50	51.4	2.8%
1,1-DICHLORO ETHENE	50	52.0	4.0%	50	50.1	0.2%
CIS-1,2-DICHLORO ETHENE	50	50.6	1.2%	50	50.3	0.6%
TRANS-1,2-DICHLORO ETHENE	50	50.3	0.6%	50	51.8	3.6%
DICHLOROMETHANE	50	53.4	6.8%	50	54.5	9.0%
TETRACHLORO ETHENE	50	51.1	2.2%	50	52.7	5.4%
1,1,1,2-TETRACHLORO ETHANE	50	57.0	14.0%	50	58.1	16.2%
1,1,2,2-TETRACHLORO ETHANE	50	45.1	9.8%	50	45.9	8.2%
1,1,1-TRICHLORO ETHANE	50	52.9	5.8%	50	50.3	0.6%
1,1,2-TRICHLORO ETHANE	50	50.2	0.4%	50	49.2	1.6%
TRICHLORO ETHENE	50	49.9	0.2%	50	51.0	2.0%
VINYL CHLORIDE	50	49.9	0.2%	50	47.4	5.2%
TRICHLOROFLUOROMETHANE (FR11)	50	51.3	2.6%	50	52.2	4.4%
DICHLORODIFLUOROMETHANE (FR12)	50	42.3	15.4%	50	41.5	17.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	52.2	4.4%	50	53.9	7.8%
BENZENE	50	52.2	4.4%	50	52.5	5.0%
CHLOROBENZENE	50	51.4	2.8%	50	51.8	3.6%
ETHYLBENZENE	50	51.3	2.6%	50	51.0	2.0%
TOLUENE	50	49.4	1.2%	50	50.4	0.8%
m&p-XYLENES	100	106	6.0%	100	105	5.0%
o-XYLENE	50	51.2	2.4%	50	50.3	0.6%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579

ANALYSES PERFORMED BY: MARK BURKE